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SUPERIOR COURT OF THE STATE OF CALIFORNIA  
COUNTY OF SONOMA

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BROOKTRAILS TOWNSHIP COMMUNITY )	
SERVICES DISTRICT, a Public )	
Agency, )	
	)
Plaintiff, )	
	)
vs. )	Case No. SCV 253175
	)
CITY OF WILLITS, a General Law )	
City; and DOES 1 through 100, )	
inclusive, )	
	)
Defendants. )	

---

DEPOSITION OF DONALD G. McEDWARDS, Ph.D.

Monday, April 21, 2014

Reported by:  
KIM Y. ROTHERHAM, CSR No. 7397

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SIMSON REPORTING  
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2200 Range Avenue, Suite 106  
Santa Rosa, California 95403  
(707) 578-7580

1 BE IT REMEMBERED THAT, pursuant to Notice, on  
2 Monday, April 21, 2014, commencing at the hour of  
3 10:08 a.m., thereof, at the Law Offices of GEARY, SHEA,  
4 O'DONNELL, GRATTAN & MITCHELL, P.C., 37 Old Courthouse  
5 Square, Santa Rosa, California, before me, KIM Y.  
6 ROTHERHAM, CSR No. 7397, State of California, personally  
7 appeared:

8  
9 DONALD G. McEDWARDS, Ph.D.,  
10 called as a witness by the Defendants; who, having been  
11 duly sworn by me, was thereupon examined and testified as  
12 is hereinafter set forth.

13 ---o0o---

14 A P P E A R A N C E S

15 For the Plaintiff:

16 Law Offices of DANIEL F. CROWLEY & ASSOCIATES  
17 37 Old Courthouse Square, Suite 200  
Santa Rosa, California 95404

18 By: DANIEL F. CROWLEY, Esq.  
19

20 For the Defendant:

21 Law Offices of GEARY, SHEA, O'DONNELL,  
22 GRATTAN & MITCHELL, P.C.  
37 Old Courthouse Square, Fourth Floor  
23 Santa Rosa, California 95404

24 By: LEO R. BARTOLOTTA, Esq.  
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170	Five-page Resume of Donald G. McEdwards, Principal Hydrogeologist	19
171	Thirteen-page document entitled, "Disclosure of Expert Witness: Declaration Re Expert Witness Information"	32
172	One-page letter on the letterhead of The McEdwards Group dated November 20, 2012, to Mr. Paul Cayler, City Manager	45
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1                   DONALD G. McEDWARDS, Ph.D.,

2                   having been first duly sworn, was  
3                   examined and testified as follows:

4  
5                   EXAMINATION

6 BY MR. BARTOLOTTA:

7           Q.     Good morning.

8           A.     Good morning.

9           Q.     Could you please state your name and spell your  
10           last name for the court reporter.

11          A.     Donald George McEdwards, M-c-E-d-w-a-r-d-s.

12          Q.     Thank you. Have you ever had your deposition  
13           taken before?

14          A.     Yes.

15          Q.     Approximately how many times?

16          A.     Five.

17          Q.     When was the last time?

18          A.     Five years ago. I don't really remember.

19          Q.     Okay.

20          A.     I don't do many of these.

21          Q.     Okay. The five depositions that you took, how  
22           many of them were as an expert witness?

23          A.     All of them.

24          Q.     Okay. So I'm going to review the ground rules.  
25           I'm sure you've heard them before, but it's been five

1 years, so I'll go through them and remind you. Okay?

2 Everything we say is being taken down by the  
3 court reporter verbatim. In order to make sure that  
4 things go smoothly, wait until I'm done with my question  
5 before you give an answer. I'll wait until you give your  
6 full answer before I ask my next question. I need you to  
7 give a verbal response. An "huh-uh" or "uh-huh" doesn't  
8 really come up on the transcript.

9 If I ask you a question you don't know the  
10 answer to, please say "I don't know." If you say "I  
11 don't remember," that's a perfectly valid answer also.  
12 Okay? However, if I ask a question and you answer it,  
13 the assumption is you understood what my question was.  
14 Okay? So if I ask a question and you don't understand  
15 it, please say "I don't understand it" or "I can't answer  
16 it the way that you phrased it," and I will re-ask the  
17 question.

18 I don't want you to guess, I don't want you to  
19 speculate, but I am entitled to your best estimates. I  
20 think estimates in this deposition may be something that  
21 come up. Do you know the difference between a guess and  
22 an estimate?

23 A. Yes.

24 Q. Okay. If you need to take a break at any time,  
25 let me know. Whether it's to talk to counsel, take a

1 phone call, use the restroom, just let me know and we'll  
2 go off the record. Okay?

3 A. Yes.

4 Q. You're going to get a copy of this transcript  
5 at a later date. You're going to be able to make changes  
6 to the transcript, changes to your answers; however, you  
7 should be forewarned that if you make changes of a  
8 substantive nature, such as a "yes" to a "no" or add  
9 facts that I don't get to ask you about, that that could  
10 be commented on at the time of trial. It could affect  
11 your credibility. Do you understand that?

12 A. Yes, I do.

13 Q. Okay. Is there any medications that you've  
14 taken in the last 48 hours that would affect your ability  
15 to give clear testimony?

16 A. No.

17 Q. Any other reason that we can't go forward with  
18 your deposition today?

19 A. No.

20 MR. BARTOLOTTA: Okay. Very good. I'm going  
21 to mark as 69 the Notice of Taking Deposition and Request  
22 to Produce Documents and Things.

23 (Deposition Exhibit 169 was marked  
24 for identification.)

25 MR. BARTOLOTTA: I'm sorry; Exhibit 169, I

1 mean.

2 Q. Have you seen this document before?

3 A. No.

4 Q. Okay. If you turn to Exhibit A --

5 A. Yes.

6 Q. -- this is what we asked you to bring:

7 "Your complete file regarding plaintiff  
8 Brooktrails Township Community Services  
9 District, including but not limited to, any  
10 and all records, reports, memoranda, notes,  
11 photographs, drawings, sketches,  
12 correspondence and any other documents and  
13 things with regard to any and all  
14 consultations, studies, examinations,  
15 inspections and/or tests performed with  
16 regard to the subject case."

17 It goes on to request examinations, inspections  
18 and tests and any and all writings relating to those.  
19 Have you produced -- as part of what is sitting in front  
20 of us, the physical documents, as well as the thumb drive  
21 that you've given us, have you given us everything that's  
22 responsive to paragraph No. 1?

23 A. I did not know I needed my Curriculum Vitae  
24 because I gave that to Chris Neary.

25 Q. Okay. I have a copy so we'll go over that.



1           A.     Okay. And I think he said that -- this is last  
2 minute. That's my billings to date. You wanted that  
3 too, according to this.

4           Q.     Yes.

5           A.     I just went through my book and pulled out the  
6 ones from that job.

7           Q.     Can I keep this copy?

8           A.     Yes.

9           Q.     So what I'm going to do is at some point we're  
10 going to have a break and -- what are you smiling at?

11                 MR. CROWLEY: Nothing.

12 BY MR. BARTOLOTTA:

13           Q.     And I'm going to go look at what was on the  
14 directory you provided to us.

15           A.     Uh-huh. Yes.

16           Q.     And I'll go through it at that time rather than  
17 make --

18           A.     I understand. You're not going to take our  
19 time now.

20           Q.     So let me just kind of move forward. Is there  
21 anything that you've produced in terms of notes,  
22 photographs, anything -- and when I say "produced,"  
23 either created or was given to you and relied upon. Is  
24 there anything that you have not produced physically in  
25 front of me or put onto the thumb drive that we gave to

1 my secretary?

2 A. No.

3 Q. Okay. The billing records that you just  
4 provided a copy of to me, these are dated from November  
5 showing work done in October going through December 2013.

6 A. October -- you were given a year.

7 Q. I'm sorry; 2012. So it goes from -- basically  
8 the first entry on this is October 25th, 2012?

9 A. If that's what it says there. I can't see it  
10 from here. Yes, my first day of work on this project for  
11 Brooktrails was 10/25/12.

12 Q. And that first entry was:

13 "Photograph ponds and embankments,  
14 calculate freeboard in three ponds and  
15 e-mail titled photos to Chris Neary."

16 Obviously you must have met with Chris Neary --

17 A. Yes.

18 Q. -- or had a conversation with him prior to  
19 October 25th, 2012, correct?

20 A. Yes.

21 Q. Okay. What is -- when was the first time you  
22 talked or spoke with Chris Neary?

23 A. Possibly a week before. I don't recall. I  
24 didn't charge for it, it was such a brief meeting.

25 Q. Okay. Have you ever worked with Mr. Neary

1 before?

2 A. Several times, yes.

3 Q. Had you ever worked with him before as -- in  
4 relation to Brooktrails?

5 A. No.

6 Q. First time being engaged by Brooktrails?

7 A. This is the first time for Brooktrails.

8 MR. CROWLEY: Let Lee finish his question. It  
9 makes her job a lot easier.

10 BY MR. BARTOLOTTA:

11 Q. How many times have you worked with Chris Neary  
12 prior to this engagement?

13 A. Seven, about. I'd have to go back and look at  
14 my project log. Possibly more, but I've forgotten.

15 Q. And all of those in your capacity as an expert?

16 A. No.

17 Q. Okay. How had you worked with Mr. Neary prior  
18 to this?

19 A. The very first involvement with Chris was when  
20 I -- he asked for -- I worked in Santa Rosa, and he asked  
21 for a bid to investigate an underground tank leak at the  
22 Navarro Store in Navarro, as well as remove the tanks.  
23 So I was the successful bidder, so that's my first  
24 involvement with him. That was in the '90s.

25 Q. Okay. What kind of tanks in Navarro?

1           A.     Gasoline, underground fuel tanks. There used  
2 to be a station there. Leaking underground storage  
3 tanks.

4           Q.     Was this related to litigation that was  
5 ongoing --

6           A.     No. They needed a consultant on --

7           Q.     Wait until I finish my question. Was that  
8 related to litigation or was that for a client of his,  
9 just an ongoing environmental issue that needed to be  
10 addressed?

11          A.     For a client of his.

12          Q.     Okay. And so that was actually work that you  
13 were doing as a consultant engineer -- is it  
14 geohydrologist?

15          A.     Hydrogeologist.

16          Q.     Hydrogeologist. I got it reversed.  
17 And that did not result in any litigation?

18          A.     No, it did not.

19          Q.     At least as far as you know?

20          A.     That's correct. The site is closed. There's  
21 no litigation.

22          Q.     What was the next time you recall working for  
23 Mr. Neary?

24          A.     I can't remember the next job. I've worked  
25 on -- there was a question about drainage in the building

1 he is in, and I was asked to comment on SHN's report on  
2 that and about the source of TCE in the groundwater next  
3 to the dry cleaning building that was affecting his  
4 building in Willits.

5 Q. When was that?

6 A. Two years ago.

7 Q. Was he the owner of the building?

8 A. No.

9 Q. He was just a tenant of the building?

10 A. That's correct. And I did work for the owner,  
11 Galen Hathaway, regarding the TCE in the building and the  
12 effect of the groundwater on it.

13 Q. And what is TCE?

14 A. Trichloroethylene.

15 Q. And that's a byproduct of dry cleaning?

16 A. No. It's the chemical used to dry clean. It's  
17 often called perchloroethylene too.

18 Q. And you were engaged to do tests or just to  
19 look at reports that had been done?

20 A. One of the phases was what's the effect on  
21 health and the people in the building, so I set up Summa  
22 canisters to measure the air, the volatiles in the air  
23 and the working spaces.

24 Q. And whatever became of that?

25 A. I gave the test results to Chris and I haven't

1 followed through.

2 Q. Okay. Can you name another project that you've  
3 done with Chris?

4 A. He is the attorney for the Harwoods, and so I  
5 investigated the Harwood Mill in Branscomb as required by  
6 the Water Board to investigate all sorts of contaminants  
7 there. And that is almost winding down. We have a  
8 little more monitoring to do, a little more boring, and  
9 then it will be closed.

10 Q. And who is your actual -- who are you working  
11 for?

12 A. Calvin Harwood. Jackson Valley Industries.

13 Q. That's the client --

14 A. They changed their name, yes, for some  
15 financial reason, but that's who I bill.

16 Q. I'm sorry; Jackson?

17 A. Valley. Branscomb is in the Jackson Valley.

18 And then I worked for, I think it's the  
19 Community Services District. I didn't work directly for  
20 Chris, but that was his client, and I worked for them as  
21 well to look at the -- their waste -- their treatment  
22 plant in Covelo.

23 Q. And what did you do for them?

24 A. I just got familiar with the treatment plant  
25 and gave my opinion as to the operation.

1 Q. And you're talking about a wastewater treatment  
2 plant?

3 A. Yes, it's the POTW in Covelo.

4 Q. And when was that work?

5 A. Two years ago, possibly three.

6 Q. And what was the actual assignment that you  
7 received?

8 A. Go up and talk to the operator and get an idea  
9 of what he does every day and why he has to do it and so  
10 forth and the design of the plant and so forth.

11 Q. And do you know what that information or what  
12 your opinions were being used for?

13 A. No.

14 Q. And did you prepare a written report?

15 A. No.

16 Q. And did you report directly to Chris Neary?

17 A. Yes, and we had a meeting with the Community  
18 Services Board as well.

19 Q. And what was the subject matter of the  
20 discussion with the Board?

21 A. They were thinking of suing SHN.

22 Q. What does SHN stand for?

23 A. That's the short name for the consulting firm  
24 in Willits. It's Selvage, Heber, Nelson, I believe is  
25 their actual names. They have an office in Eureka as

1 well.

2 Q. And do you know if they ended up suing SHN?

3 A. I do not know.

4 Q. And what was the issue that they would have --  
5 was being considered for purposes of suing them?

6 A. Poor design of the plant.

7 Q. Poor design?

8 A. (Witness nods head.)

9 Q. And did you express any opinions as to whether  
10 the plant was designed properly or not?

11 A. No.

12 Q. Were you --

13 A. Not that I remember. I may have. I don't  
14 remember. I just don't remember.

15 Q. Okay. So what was your understanding of your  
16 role?

17 A. To understand the operation and how -- what  
18 they were doing and how the plant operated.

19 Q. So other than meeting with the plant operator  
20 and then meeting with the Board to discuss how the plant  
21 operates, did you do anything further?

22 A. I met with the Board, but I was essentially a  
23 bystander and I heard what was going on. I didn't  
24 contribute to the discussion.

25 Q. Okay. Any other project that you can think of?



1           A.     There was a junkyard in Ukiah, which is next to  
2     the Pomo Indian Reservation there. I think it's Pomo.  
3     And they were suing him, the junkyard operator, for  
4     creating a nuisance to the water, to the nearby creek.  
5     So Chris was their attorney, and so Chris told them to  
6     hire me to investigate the complaint.

7           Q.     The junkyard owner?

8           A.     Yes. T & T, I think it's called. And we were  
9     able to show that the only problem that was coming -- the  
10    only problem was the actual Indian Reservation itself;  
11    that T & T was not contributing anything. But as part --  
12    and they got a -- what do you call it? Summary judgment  
13    dismissing the suit.

14          Q.     So this was a lawsuit?

15          A.     That was -- yeah. Yeah. Correct. And then  
16    following that, as part of the -- I don't know if it's  
17    part of the settlement, but the Water Board in Santa Rosa  
18    required that they do -- that they contain the runoff  
19    water, to treat it before it went to the creek, the  
20    surface water runoff.

21          Q.     The Pomos?

22          A.     No. No, the junkyard. So I designed that for  
23    them and they constructed and built it, and they're  
24    monitoring it and I haven't heard anything from them.

25          Q.     Did you submit a declaration or prepare a

1 declaration in support of the summary judgment related to  
2 the suit?

3 A. Yes.

4 Q. Do you remember the name of the client? T & T?

5 A. T & T, yes.

6 Q. And that was filed in Mendocino?

7 A. I believe so. It was in Ukiah, the site was.

8 Q. Anything else that you can recall?

9 A. I've done numerous odd jobs for Chris, but  
10 they're so -- so small, time extent, I can't remember.

11 Q. Any other cases involving lawsuits that you can  
12 recall?

13 A. Well, I did hire Chris to represent me, but  
14 that wasn't -- nobody else was involved.

15 Q. And what was that related to?

16 A. That was a contractor had not paid me for a job  
17 in Sonoma. Solano Avenue was the name of it. That's the  
18 street the site was on, Solano Avenue.

19 Q. So this is basically a breach of contract case?

20 A. Yes, right. And we finally settled and that  
21 was it. But he was my attorney.

22 Q. When was that?

23 A. Seven years ago, eight years ago.

24 (Off the record.)

25 MR. BARTOLOTTA: Back on.

1 Q. How many times have you served as an expert  
2 witness?

3 A. I believe I answered that. I think about --  
4 oh, expert witness, not deposition. Three times, I  
5 believe. But that's in court.

6 Q. Three times that you've --

7 A. I can only remember one occasion when I worked  
8 for Harding Lawson. There was this eminent domain  
9 dispute about Highway 80 going through a gravel pit, and  
10 I was the expert witness on how it affected the drainage  
11 of this pits -- this wash water pits. And that was 7 --  
12 '80-something. A long time ago.

13 Q. So how many times have you testified in trial?

14 A. That one in Reno and the one with Chris when he  
15 was my attorney. I'm sure there's another one, but I  
16 just can't remember.

17 MR. BARTOLOTTA: All right. So I'm going to  
18 mark next in order your CV.

19 (Deposition Exhibit No. 170 was  
20 marked for identification.)

21 BY MR. BARTOLOTTA:

22 Q. So this was provided to us. If you could just  
23 take a brief look at it and tell me if it's a current  
24 copy of your CV or whether there's any additional work or  
25 articles or anything that aren't on here.

1           A.     This I last updated about 15 years ago, so this  
2     is 15 years old, but I never bothered to change it, but  
3     there's no publications -- is there another page here?  
4     There's a newer version, but the only thing different  
5     between the newer version and this one is I have in my  
6     Exhibit 1, I invented a groundwater pump and that was  
7     down here as well, but that's not germane.

8           Q.     That's the only change?

9           A.     Yes. This is quite old because it has my phone  
10    number as 459-1086 and I changed that, like, two years  
11    ago.

12          Q.     Okay.

13          A.     I did send Chris a new copy. I don't know what  
14    happened.

15                 MR. CROWLEY: You sent --

16                 THE WITNESS: Chris a new --

17                 MR. CROWLEY: -- an updated CV?

18                 THE WITNESS: Yes. I like to call it resume.

19                 MR. CROWLEY: I was just going to see if  
20    Chris --

21                 MR. BARTOLOTTA: This is the one we got that  
22    was attached to the --

23                 MR. CROWLEY: Then I have the same one you  
24    have. That's what I was going to look at. If we get  
25    it --

1 THE WITNESS: Would you like me to e-mail you  
2 the new one? Would that make any difference?

3 MR. BARTOLOTTA: You can do it. Well, you can  
4 give it to Mr. Crowley and he can forward it to us.

5 MR. CROWLEY: I'll ask Chris to send it to me.  
6 BY MR. BARTOLOTTA:

7 Q. So The McEdwards Group is what you've -- the  
8 name you've been working under since 1995, correct?

9 A. Yes.

10 Q. Okay. Tell me about who else works at The  
11 McEdwards Group besides you.

12 A. Nobody else. I did have an employee once for  
13 about six months.

14 Q. Didn't work out?

15 A. Didn't work out.

16 Q. Who was that employee or what was that  
17 position?

18 A. It was a groundwater sampler. It was easier to  
19 do it myself than tell him how to do it.

20 Q. Okay. And in terms of the work that you've  
21 been doing since 1995, has that all been out of Willits?

22 A. No. I moved to Willits in '96 from Santa Rosa.  
23 I had an office on B Street here in Santa Rosa.

24 Q. Since 1996, have you -- well, strike that.

25 In terms of representative projects that you

1 have listed here --

2 A. Yes.

3 Q. -- can you explain to me your intent in putting  
4 those specific projects on your CV?

5 A. To provide a broad view of my experience.

6 Q. Is this a complete list of everything that  
7 you've done in terms of projects?

8 A. As I said before, this thing is -- this resume  
9 is 15 years old as far as the number of projects I've  
10 done.

11 Q. Okay. And even being 15 years old, is this  
12 just a representative sample of projects that you had  
13 worked on or was it --

14 A. Yes.

15 Q. -- as of 15 years ago, was this a complete  
16 list?

17 A. This is not a complete list as of 15 years ago.  
18 These are the highlights. Most of my work since the  
19 preparation of this has been in underground tank sites.

20 Q. Okay. So why don't you explain to me what the  
21 scope of work is that you do as a geohydrologist --  
22 hydrogeologist?

23 A. I investigate and remediate groundwater and  
24 soil contamination caused by leaks from underground  
25 storage tanks or septic tanks or surface spills.

1           Q.     So that was underground storage tanks,  
2 septic --

3           A.     Yes.

4           Q.     -- tanks or surface spills?

5           A.     Of contaminants.

6           Q.     What percentage of the work that you do is  
7 related to consulting work related to underground tanks?

8           A.     Probably 90 percent.  It's dropping off now.  
9 The sites close -- the State is closing a lot of sites.

10          Q.     And underground tanks, I assume, is everything  
11 from old gas stations to old heating oil tanks?

12          A.     Those are the primary classes, the leaking  
13 residential fuel tank and then the commercial mom and pop  
14 store or commercial gas station with leaking tanks.

15          Q.     Are you involved with the one over here on the  
16 end of B Street by chance?

17          A.     Which one was that?

18          Q.     It's by the Perry firm.  Right next to it is an  
19 ongoing project.  Apparently that's a tank.

20          A.     No, I'm not.

21          Q.     And right behind it is Santa Rosa Creek.

22                 MR. CROWLEY:  That's PG&E.

23                 MR. BARTOLOTTA:  Is that PG&E?

24                 MR. CROWLEY:  That was a PG&E tank --

25                 THE WITNESS:  I was involved in the Occhipinti

1 site. He's moved since. That was a big plume.

2 BY MR. BARTOLOTTA:

3 Q. In terms of surface contaminants, how much work  
4 have you done as it relates to that?

5 A. I can't recall. Oh, the most recent project  
6 was they took a tank out in Cleone, a residential house,  
7 and they replaced it with an above-ground fiberglass tank  
8 that they filled with heating oil, but it rained and the  
9 water displaced it and it fell on the ground. So that's  
10 a current project.

11 Q. Okay. How much of your work as a  
12 hydrogeologist has been involved with municipal sewer  
13 systems?

14 A. Just this one and the one in Covelo.

15 Q. And that was the consulting work that you'd  
16 done for Chris Neary that we discussed before?

17 A. That's correct.

18 Q. And that was basically limited to an interview  
19 of the operator and participation in some meetings?

20 A. Yes.

21 MR. BARTOLOTTA: I'm going to take one second.

22 (Break taken from 10:35 a.m. to 10:36 a.m.)

23 THE WITNESS: I have another comment on surface  
24 spills.

25 BY MR. BARTOLOTTA:



1 Q. Yes.

2 A. Chris Neary got me involved in the Ukiah Depot.

3 Q. Okay.

4 A. And Westin Associates, I think is the name.

5 They had a work plan that I modified and got approved,  
6 and so we're in the final throes of finishing that site.  
7 Removal of contaminated soil after sampling.

8 Q. What was the contaminant in that case?

9 A. Polyaromatic hydrocarbons, PAHs, and diesel.

10 Out of the panoply of contaminants they looked  
11 at, those are the two they decided were important.

12 Q. Okay. In terms of either what's listed on your  
13 CV or work that you've done, have you in the past done --  
14 other than this case and the Covelo issue that we talked  
15 about, have you ever worked on a project where you were  
16 involved in the assessment of a city's sewer collection  
17 system, or municipalities, doesn't matter?

18 A. No.

19 Q. Have you ever had a project where you were  
20 involved in the construction analysis assessment of a  
21 wastewater ponding system?

22 A. To the extent you can call surface water runoff  
23 water that needs to be treated or contained, yes, I  
24 designed a system for that junkyard in Ukiah, T & T.

25 Q. In terms of the capacity of -- in other

1 words -- well, why don't you tell me what that project  
2 was. What did you eventually design for them?

3 A. It was a big concrete containment structure.  
4 I'm guessing it was maybe 600 to 1,000 gallons capacity  
5 to catch the excess runoff before -- so it wouldn't run  
6 off into the creek and it could get metered out and have  
7 all the debris settle out.

8 Q. So other than that system for the junkyard,  
9 have you ever done assessment analysis of a wastewater  
10 ponding system?

11 A. No. As you said, except for these projects.

12 Q. Have you ever done a project design analysis of  
13 a wastewater disposal plant's capacity?

14 A. No.

15 Q. Ever -- other than this case and the Covelo,  
16 have you -- well, strike that.

17 So what was your understanding of your  
18 assignment when Mr. Neary first contacted you?

19 A. He heard from John Ford, who lives next to the  
20 treatment plant grounds, that he wasn't getting  
21 irrigation water he normally does. And this was after  
22 the wetlands were completed and the new plant in Willits.  
23 So I had a discussion with Chris over this, and he  
24 suggested I visit the plant and see what the thing looks  
25 like.

1 Q. Who's John Ford?

2 A. He's a neighbor to -- he has lands adjacent, I  
3 believe, to the sewage treatment plant, and he was  
4 provided irrigation water for his crops -- treated water.

5 Q. And directly from the plant?

6 A. Yes.

7 Q. How much?

8 A. I don't know.

9 Q. And was there any explanation that Mr. Neary  
10 provided to you as to why he believed there was a  
11 reduction in irrigation water?

12 A. He told me that John Ford told him that the  
13 ponds were leaking, the wetlands were leaking. That's  
14 why there's no water storage to give to John.

15 Q. And was it your understanding that this  
16 assignment was in relation to work Mr. Neary was doing  
17 for John Ford or that he was doing for Brooktrails in  
18 relation to this litigation?

19 A. I wasn't clear at the time who he was working  
20 for. He just asked me to go out and look at the  
21 situation, and later he told me he was working for  
22 Brooktrails. That was his interest in it.

23 Q. So he specifically said, "I want you to go look  
24 at the ponds to see if you can identify any sources of  
25 leakage"?

1           A.     He didn't say "Identify sources of leakage."  
2     "Go out and look at the operation. Tell me what you  
3     find."

4           Q.     And did he give you any documents at that time?

5           A.     No.

6           Q.     Do you have a recollection of this first  
7     interaction with Chris Neary as to whether this was a  
8     meeting in person or over the phone?

9           A.     It was in person.

10          Q.     At his office?

11          A.     Yes.

12          Q.     How long was that meeting?

13          A.     Half an hour.

14          Q.     Did you speak with John Ford?

15          A.     No. I've never met John Ford.

16          Q.     So what did you do in order to investigate what  
17     Mr. Neary asked you to investigate?

18          A.     I walked up the creek from East Commercial, or  
19     I think it's Broaddus Creek, I think, the bridge over  
20     Broaddus Creek. And I walked up there and then I kept  
21     going until I was opposite -- or I thought I was opposite  
22     of the enhanced wetlands in the creek and took some  
23     photographs. And then I climbed out of the creek and  
24     walked around the berm of the enhanced wetlands  
25     structure.

1 Q. Okay. And what time of year was this? When  
2 was this? Is it on your bill?

3 A. Yes, it should be in there somewhere.

4 Q. Maybe that will help you give a timeline.

5 A. I have photographs on the disk I gave you.

6 Q. Okay.

7 A. And they're time dated.

8 Q. Okay.

9 A. So you can see that.

10 Q. Are those --

11 A. Here it is. That's 10/25/12.

12 Q. How long did you -- did it take for you to do  
13 this walk up the creek and inspection?

14 A. It says three and a half hours on here.

15 Q. Okay. And so tell me exactly what you did.  
16 You walked up the creek to the point where you were  
17 adjacent to the wetlands and then you walked along the  
18 berm?

19 A. Right. I saw where they had a stake and  
20 there's a rope they climbed up the bank with, and so  
21 that's how I got out, and that was next to the wetlands.  
22 So I walked around the wetlands and took pictures.

23 Q. Okay.

24 A. And I just noticed on my billing, I may have  
25 missed a bill. I'm not sure. I thought I had it. I

1 think I made two trips to there because I don't remember  
2 really, but the last item on my first bill I gave you  
3 said on 10/30 I reviewed photos taken on 10/3/12. And  
4 that's -- yeah, I'm mixing it up here. And that's when I  
5 walked up the creek and looked at the sample location 2  
6 which was in the creek. But the pictures will speak for  
7 themselves as far as the photographs.

8 Q. Okay.

9 A. So I must have met with Chris before the 3rd  
10 and didn't bill it.

11 Q. Okay.

12 A. Or maybe I have and I don't have the invoice.

13 Q. When you say the 3rd, you're talking  
14 October 3rd --

15 A. Yes.

16 Q. -- 2012?

17 A. That's correct.

18 Q. What did you find on that initial inspection?

19 A. Of what? Inspection of what?

20 Q. The ponds, the wetlands.

21 A. The wetlands?

22 Q. Yes.

23 A. I found that the water level was maybe two feet  
24 deep, and I did some -- two feet deep. And there was a  
25 band of green vegetation growing approximately the same

1 distance from the toe of the outside of the embankment  
2 all around the ponds, which did not extend further, and  
3 maybe a 20-foot band, maybe 15 feet away from the toe.

4 Q. Okay.

5 A. And I lined myself up so I could look down the  
6 axis of the embankment, like a truck would drive. And I  
7 could see the water on one side and I see the lush  
8 vegetation at that time on the other side. It was about,  
9 from what I could judge, maybe a foot difference between  
10 the water level and the green. So it looks like the  
11 ponds were leaking because it looked like the green  
12 vegetation was getting moisture from the ponds.

13 Q. And what significance was that to you?

14 A. Water was going from the ponds to the green  
15 vegetation underneath the embankment.

16 Q. And this was based upon your visual  
17 observation?

18 A. Yes.

19 Q. Did you do any testing to determine whether --

20 A. No. I'm sorry. No.

21 Q. Did you do any testing to determine whether  
22 there was actual leaking?

23 A. No.

24 Q. How did you determine that it was two feet  
25 deep?

1           A.     I had the construction plans that Chris had  
2 given me and from the photographs that I took of the  
3 inside of the wetlands, there are three ponds in the  
4 wetlands and there's a barrier, a smaller berm, that  
5 separates the three ponds, two berms, and I could see the  
6 water level on the weir structure going from one pond to  
7 the next. So I took a picture along -- looking along  
8 that median berm and I was able to scale off the picture  
9 distances.

10          Q.     Did you actually physically measure anything?

11          A.     I measured the rungs. There's a structure  
12 there like a ladder you climb up to maintain the thing.  
13 And I believe I measured the distance between the rungs  
14 and used that as the scale to get the depth of the water.

15          Q.     You understand that you were designated as an  
16 expert witness in this case?

17          A.     Yes.

18                 MR. BARTOLOTTA: We'll mark next in order  
19 Disclosure of Expert Witness with the date stamp received  
20 by us of March 28th, 2014.

21                         (Deposition Exhibit No. 171 was  
22                         marked for identification.)

23 BY MR. BARTOLOTTA:

24          Q.     If you turn to page No. 5, the number at the  
25 bottom.



1           A.     Yes.

2                   MR. CROWLEY:  5 and 6.

3 BY MR. BARTOLOTTA:

4           Q.     At the very bottom of page No. 5, there's a  
5 sentence that starts, "Dr. McEdwards is expected to  
6 testify..." Do you see where I'm talking about?

7           A.     There it is, yes.

8           Q.     Okay.

9                   "...is expected to testify as to  
10 the characteristics of the Willits  
11 Wastewater Plant as designed and as  
12 constructed."

13          A.     Yes, that's what it says.

14          Q.     Are you prepared to give those opinions today?

15          A.     As far as my knowledge permits, yes.

16          Q.     Okay. What opinions do you have regarding the  
17 design of the Willits Wastewater Plant as designed? And  
18 if it's helpful for you to do that -- you know, it says  
19 "Willits Wastewater Plant as designed and as  
20 constructed." I assume that there's a comparison that  
21 should occur between the design and the way it's  
22 constructed. So my question is, what opinions do you  
23 have related to that sentence?

24          A.     As -- I believe it was constructed as designed.  
25 I don't have any -- any opinion on that. If the question

1 was, was it constructed as designed, I'd have to say it  
2 was.

3 Q. Did you obtain -- were you provided with copies  
4 of the design?

5 A. Yes, I was.

6 Q. And did you --

7 A. Construction drawings, yes.

8 Q. And did you have an opportunity to see the plan  
9 and inspect it?

10 A. Yes.

11 Q. And so basically, as far as you can tell,  
12 design and construction are the same thing?

13 A. It was constructed as designed.

14 Q. Okay. It then says -- I'm just breaking down  
15 the commas in that sentence -- he's expected to testify  
16 as to "the impact of inflow and infiltration." Do you  
17 have opinions regarding the impact of inflow and  
18 infiltration?

19 A. I have to get specifically what you mean by  
20 "infiltration."

21 Q. Well, how do you define "infiltration"?

22 A. Infiltration can be coming into the plant or  
23 leaving the plant by infiltration.

24 Q. Well, do you have opinions regarding the impact  
25 of infiltration going into the plant?

1           A.     Yes.

2           Q.     Do you have opinions regarding the impact of  
3     infiltration leaving the plant?

4           A.     Yes.

5           Q.     Okay. Let's start with your opinions regarding  
6     infiltration entering the plant.

7           A.     The flow to the plant increases markedly -- the  
8     influent to the plant, volume, increases markedly during  
9     rainy season, and the only cause I can think of for that  
10    would be the sewer collection system leaking and  
11    admitting groundwater into it and increasing the volume  
12    of sewage.

13          Q.     So in other words, this is actual rain runoff  
14    flowing into the collection system which then transports  
15    the water to the plant?

16          A.     Rain runoff mediated by the rise -- causes the  
17    rise in groundwater which then leaks into the pipes.

18          Q.     At some point I want to get into details of  
19    that, but I want to ask you -- I think what you provided  
20    me was a summary of what your opinion would entail,  
21    correct?

22          A.     Yes, that's the impact of infiltration for  
23    water going into the plant.

24          Q.     Okay.

25          A.     I have no other comment on that.

1 Q. What about water coming out of the plant?

2 A. Water coming out of the plant is less than  
3 water coming into the plant on a volume basis. Water  
4 coming into the plant is greater than water leaving the  
5 plant based on the flow metering records maintained by  
6 the City.

7 Q. And what do you attribute that to?

8 A. There appears to be two places in the plant  
9 where water is lost by, quote, "infiltration" to the  
10 ground. If you do a balance of inflow, that's the  
11 influent coming in, metered influent, versus adding all  
12 the sources of outflow, the metered outflow, you get a  
13 large discrepancy in millions of gallons throughout the  
14 year.

15 Q. And --

16 A. I'm sorry; let me correct myself. You take  
17 inflow coming into the headworks of the plant, metered,  
18 and you subtract every month and you keep an accounting  
19 of the water, metered, coming out of the treatment system  
20 before it hits the wetlands or irrigation. There's a  
21 disparity there of millions of gallons based on their  
22 metering.

23 Q. Okay.

24 A. That's one loss.

25 Q. Well, hold on.

1           A.       Somehow.

2           Q.       Back up.  Yes, so you're saying somehow there's  
3 a loss because metered in doesn't match metered out?

4           A.       Correct.

5           Q.       What is your opinion as to where that loss is  
6 occurring?

7           A.       I think the surge ponds or equalization ponds  
8 leak.  I don't know where that water is going, but all I  
9 know is if the metering is correct, there's a  
10 discrepancy.  It's more than a few percent.

11          Q.       Okay.  That was number one.

12          A.       Correct.  That was number one, infiltration  
13 effects out-go.  Number two is, if you take the metered  
14 outflow from this treatment system and then you subtract  
15 all the metered outflow for irrigation and -- from the  
16 ponds or to the ponds -- no; I'm sorry.  Let me rephrase  
17 that.  Outflow from irrigation, spray irrigation, and  
18 discharge to the creek, you also get substantial  
19 difference.  Water is lost in that process somehow, and I  
20 believe it's because it's leaking from the wetlands.

21          Q.       Okay.  So we'll go back to that.  Next it says  
22 that you will give an opinion, quote, "regarding" --  
23 well, regarding, quote, "...the operation of the Willits  
24 Wastewater Treatment Plant in fact and as permitted."  
25 What are your opinions with respect to that?

1           A.       I'll have to go and talk about the variance  
2 they got for -- from the Groundwater Basin Plan where  
3 they were previously permitted to put discharge treated  
4 effluent into the creek at a ratio of 100 to 1. And they  
5 got a variance where they could put it by 10 to 1 in the  
6 creek during certain times -- well, when the volume of  
7 the creek was high. No. No. No. No. That's not  
8 correct. October through May 15th, I think. There's a  
9 certain time period they could do that.

10                   They got that variance by depending on the --  
11 let me back up. As part of the -- I believe as part of  
12 the agreement with the Water Board, they've reduced the  
13 contaminant in BOD and TDS from 30 milligrams per liter  
14 to 10 respectively, and they had to monitor for total  
15 nitrogen, which they weren't required to do before. And  
16 the document that was commissioned, I guess, that  
17 described how the variance was a reasonable thing to do,  
18 prepared by -- I forget the name of the consulting firm.  
19 It wasn't SHN, it was someone else. They relied on the  
20 residence time of water in the wetlands to reduce the  
21 nitrogen content naturally as part of the treatment.

22                   Well, I don't think that happened much because  
23 the wetlands leaked. And often the City would just take  
24 the water from -- instead of going directly into the --  
25 it never went into the ponds, it went right into the

1 creek. So it never had a chance to ameliorate, let's  
2 say, in the ponds. So the operation of the treatment  
3 plant in fact, in that regard, does not operate as  
4 permitted.

5 Q. Currently?

6 A. Currently.

7 Q. So is your opinion the Willits Wastewater  
8 Treatment Plant as operated is not in compliance with the  
9 permitted use?

10 A. It's not in compliance with the rationale in  
11 the variance -- supporting the variance that they  
12 received.

13 Q. Okay. When did they receive the variance?

14 A. I do not know.

15 Q. Have you seen the variance?

16 A. Yes, I have. I do not remember the date. But  
17 I understand the variance was gotten before the plant  
18 came into operation. And once it was in operation, it  
19 permitted this 10-to-1 ratio.

20 Q. Okay. So your opinion is the Willits  
21 Wastewater Treatment Plant is, in fact, operating in a  
22 manner that's not in compliance with the variance?

23 A. Not in compliance with the bases of the  
24 variance -- the assumptions made in arguing for the  
25 variance.

1 Q. Okay. And what's the significance of that?

2 A. If the bases for the variance are not  
3 fulfilled, then the variance is in question.

4 Q. Okay. And so -- okay. What did you do to  
5 verify that?

6 A. I didn't do anything. I do note, though, that  
7 five out of the seven months -- twelve months of 2013,  
8 they had an exceedance of nitrogen they reported in their  
9 self-monitoring reports during the wet months.

10 Q. Okay. Let me ask -- I guess my question is,  
11 what documents did you review, what work did you do to  
12 arrive at the opinion you arrived at?

13 A. There's a document on the disk I gave you that  
14 Chris gave me that talked about -- that there was a  
15 report in support of the variance. They did a bunch of  
16 modeling and assumed a bunch of things, one of which, the  
17 wetlands were not leaking and they were discharging from  
18 the wetlands, not directly from the treatment plant.

19 Q. Okay.

20 A. So that I reviewed. I reviewed the  
21 self-monitoring reports put out by the City and found  
22 that five of the twelve months they had excess nitrogen.  
23 It's supposed to be 10 milligrams per liter; it's 22 or  
24 24, in that range, every time.

25 Q. And when was that? What were the dates of



1 those --

2 A. August -- I believe it was July through  
3 December.

4 Q. Of which year?

5 A. 2013.

6 Q. Okay. Next you're going to give opinions  
7 regarding "...the hydrology of the Little Lake Valley  
8 and" -- well, it just says that.

9 A. You want to talk about "as permitted" as well?

10 Q. I actually thought we just had.

11 A. We hadn't.

12 Q. Okay.

13 A. "Operation of the Willits Plant in fact" --

14 Q. Okay.

15 A. -- "and as permitted."

16 Q. Right.

17 A. So as --

18 Q. So you're basically making a comparison between  
19 the readings that were provided to you and what is  
20 permitted?

21 A. Yes. I'm basing it on the Order.

22 Q. Okay. And we're going to go back to that. I  
23 just want to cover your initial --

24 A. I can't. I have to bring the Order in to talk  
25 about the operation of the plant as permitted.

1 Q. Okay. We'll come back to it.

2 A. Okay.

3 Q. The only problem I have is that I haven't had a  
4 chance to see what you brought as documents yet --

5 A. I have --

6 Q. -- so --

7 MR. CROWLEY: Let him finish.

8 BY MR. BARTOLOTTA:

9 Q. So I will come back to that. Okay?

10 A. Fine.

11 Q. Next it says that you're going to provide  
12 opinions regarding the Little Lake Valley -- "...the  
13 hydrology of the Little Lake Valley." Do you know what  
14 opinions are expected to --

15 A. No. The only opinion I could give is that I  
16 understand that the wetlands were not lined nor I believe  
17 was the soil compacted in them; that they relied on the  
18 clay-like material to impound the water.

19 Q. What's the Little Lake Valley?

20 A. It's an old -- old valley filled with water  
21 from Outlet Creek.

22 Q. And have you looked at any studies regarding  
23 the hydrogeology -- well, of the -- of the hydrology of  
24 that valley?

25 A. No, I have not, hydrology. I looked at what

1 the soil type is in the valley.

2 Q. Okay.

3 A. And it's a Yolo loam, l-o-a-m.

4 Q. Where was that information obtained from?

5 A. On the Internet and from a soil conservation  
6 service book.

7 Q. And were either of those documents contained on  
8 the --

9 A. No, they're not. I didn't retain them. I just  
10 looked on the Internet.

11 Q. Okay. What was the Internet site that you  
12 would have gone to to obtain that information?

13 A. Google.

14 Q. And, I'm sorry, they were -- what kind of loam?

15 A. Yolo loam. I may have mentioned this, I'm not  
16 sure, but when I first did my water balance, I think it  
17 was in the footnote that you may have in your files. And  
18 if it indeed is a footnote on my spreadsheet, you have  
19 that in my thumb drive.

20 Q. Okay.

21 MR. CROWLEY: When you say that, are you  
22 talking about the source of the -- the source that you  
23 relied on?

24 THE WITNESS: Yes. I'm not sure though. I'm  
25 not sure.

1 BY MR. BARTOLOTTA:

2 Q. Okay. What's the significance of the fact that  
3 the soil types are Yolo loam?

4 A. Well, I wanted -- in my water balance, I was  
5 trying to understand why so much water was lost and I  
6 wanted to look at the type of soil. I also looked at the  
7 evaporation -- evapotranspiration rate.

8 Q. And that would be the rate at which water  
9 evaporates off the surface of the pools?

10 A. Amended by the water lost by the plants.

11 Q. Okay.

12 A. Okay. Transpiration is the plant loss of  
13 water. Evap is the water -- loss of water from the  
14 surface.

15 Q. Okay.

16 A. And I have a reference on that on my first  
17 water balance spreadsheet.

18 Q. Okay.

19 A. And that's the extent of my hydrology of Little  
20 Lake Valley.

21 Q. Okay. Next it says that you'll "...express an  
22 opinion as to whether the Willits Wastewater Treatment  
23 Plant constitutes overdesign." What is "overdesign"?

24 A. Building something that is not necessary to  
25 handle the anticipated loads.

1 Q. And do you have an opinion about whether it's  
2 oversized?

3 A. No, I don't.

4 MR. BARTOLOTTA: Now, attached to this  
5 disclosure were a few documents that I wanted to ask you  
6 about. One of them is a letter dated November 20th,  
7 2012, from you to the City Manager, City of Willits.

8 (Deposition Exhibit No. 172 was  
9 marked for identification.)

10 BY MR. BARTOLOTTA:

11 Q. Do you recognize this letter?

12 A. Yes.

13 Q. Did you draft this letter?

14 A. Yes.

15 Q. Did you actually draft the description of the  
16 categories of documents that you wanted to receive?

17 A. No.

18 Q. Who did?

19 A. Chris Neary.

20 Q. Okay. So Chris Neary -- how did that get to  
21 you?

22 A. He asked me to write a letter as a public  
23 citizen to the City of Willits.

24 Q. And --

25 A. And he gave me a rough outline and I fixed it

1 and gave him this back and he approved it.

2 Q. When you say he gave you a rough outline, how  
3 did he give that to you?

4 A. Basically the same informational points but  
5 they were badly worded, to my view.

6 Q. Right. Was it an e-mail to you? Was it a  
7 letter that he had sent to you and then you then cut and  
8 paste? Was it a hard letter that you then --

9 A. It was an e-mail, I believe.

10 Q. And he gave you instructions to make a public  
11 records request as a citizen to the City Manager of the  
12 City of Willits asking for these documents?

13 A. Yes.

14 Q. Okay. And did you receive documents responsive  
15 to this request?

16 A. I received a CD with the images of the  
17 documents on them.

18 Q. Okay. And did you receive documents responsive  
19 to each of the four categories listed in your letter?

20 A. Yes.

21 Q. Okay. You requested all engineering reports  
22 such as an irrigation management plan. Did you --

23 A. I'm sorry. No, I did not get that one.

24 Q. You did not get an irrigation management plan?

25 A. No.

1 Q. Okay. Did you receive any engineering reports?

2 A. No.

3 Q. Did you receive any records, quote:

4 "...indicating in any way the quantity  
5 of flow for metered locations designated on  
6 the plans for the treatment facility approved  
7 for construction as locations EFF-1, EFF-2,  
8 EFF-3 and EFF-4"?

9 A. Yes.

10 Q. Where did you -- did Mr. Neary advise you to  
11 ask for those specific locations?

12 A. No. I advised him to ask for those if he  
13 wanted to get a full record of what the in and out of the  
14 treatment plant is.

15 Q. What does "EFF" stand for?

16 A. That's effluent 1. And I believe that was a  
17 mirroring situation for the old plant, because we wanted  
18 to look at the old versus the new.

19 Q. And what's the difference between the flows for  
20 EFF-1 versus EFF-2?

21 A. I think EFF-1 was the flow from the old  
22 treatment system, the chlorination system, and EFF-2 is  
23 the one from the new system that uses UV.

24 Q. Okay. What about EFF-3?

25 A. I believe that was the discharge from the

1 ponds.

2 Q. And then EFF-4?

3 A. I'm sorry. Discharge from the ponds --  
4 discharge to the creek, I believe, EFF-3. EFF-4 was  
5 discharged to irrigation.

6 Q. Okay. So I just want to back up a second so I  
7 can get a better understanding of this. So you basically  
8 have effluent coming into the plant?

9 A. Correct.

10 Q. That effluent is -- what happens to it once it  
11 enters the plant?

12 A. It goes to the storage ponds, overflow ponds or  
13 purge ponds or whatever, and that's metered into the  
14 treatment system.

15 Q. Okay. And once it's metered into the treatment  
16 system, it's then treated?

17 A. Right.

18 Q. Where does it go from there?

19 A. It goes either to -- it's metered as EFF-2  
20 coming out of the treatment system. And from my  
21 interpretation of the flow records and the same meter  
22 readings, they sometimes took and directly put it into  
23 the creek because the creek was high enough or they put  
24 it into the ponds or they irrigated it.

25 Q. Okay. So there were storage ponds?



1           A.     I'm sorry. Wetlands.

2           Q.     Okay.

3           A.     I'm calling the wetlands the ponds. Not the

4 receiving ponds, the wetlands.

5           Q.     Yes, and I just want to make sure we're using

6 the same terminology as we move forward. So the effluent

7 comes into the plant and goes into...?

8           A.     The receiving ponds.

9           Q.     Receiving pond. Okay. And is held there until

10 it goes into the treatment system?

11          A.     That's correct.

12          Q.     And then after it's been treated, it goes into

13 one of three places: Irrigation, the creek, or basically

14 another storage pond of treated water?

15          A.     The enhanced wetlands.

16          Q.     The enhanced wetlands. Okay. And in terms of

17 the initial work that you did when you walked up the

18 creek, you were looking at the enhanced wetlands?

19          A.     Correct.

20          Q.     Okay. Did you look at the storage ponds?

21          A.     No.

22          Q.     Have you looked at the storage ponds?

23          A.     Yes.

24          Q.     When did you do that?

25          A.     Six -- six or four months ago when Chris asked

1 me to go and take pictures of the improvements according  
2 to the plans.

3 Q. Okay. You next ask for:

4 "All effluent monitoring data for  
5 the treatment facility as maintained by  
6 the City of Willits treatment facility for  
7 internal purposes from May 2010 through  
8 October 1st, 2012."

9 Did you receive those documents?

10 A. No. I couldn't identify if it was internal  
11 purposes or just self-monitoring. All I got was the  
12 self-monitoring reports.

13 Q. What's the difference between internal and  
14 self-monitoring?

15 A. I don't know. I've never seen the internal --  
16 internal data, if there is any.

17 Q. Okay. So I guess my question is, what's the  
18 distinction you make between internal and  
19 self-monitoring?

20 A. I don't, but they may. I didn't know.

21 Q. So you're saying that you weren't certain  
22 whether they kept internal monitoring that might be  
23 different than the self- -- I'm sorry, the internal might  
24 be different than the self-monitoring; you didn't  
25 actually know if that existed or not?

1           A.     That's correct, yes.

2           Q.     But you asked for it?

3           A.     In case it did.

4           Q.     Did you get anything?

5           A.     No.

6           Q.     Number 4:

7                    "All effluent monitoring data for the  
8                    treatment facility submitted by the City  
9                    of Willits to the North Coast Regional Water  
10                   Quality Control Board."

11                   Did you receive anything responsive to that?

12          A.     Yes, because that would be EF-3 and EF-4.

13                   That's kind of redundant.

14                   MR. BARTOLOTTA:   Okay.   So then attached next  
15                   in order, mark this.

16                                       (Deposition Exhibit No. 173 was  
17                                       marked for identification.)

18   BY MR. BARTOLOTTA:

19          Q.     Exhibit 173, which was attached to your -- or  
20                   the designation of experts.   Can you tell me what this  
21                   is?

22          A.     That -- let me look at my file.   I believe  
23                   these are the influent and meter readings essentially for  
24                   the old plant.

25          Q.     For the old plant?

1           A.     Well, the first -- top page is dated May 2010,  
2     and the plant -- the last record I have of the old plant  
3     is May 2011.

4           Q.     This first page of Exhibit 173, was this  
5     created by you?

6           A.     No.

7           Q.     Who was it created by?

8           A.     The personnel at the Willits Wastewater  
9     Treatment Plant.

10          Q.     Okay. Is this the format that you received  
11     this information in?

12          A.     Yes.

13          Q.     Okay. Had you -- were you familiar with this  
14     format of reporting?

15          A.     Not before I got them, no. It's a simple Excel  
16     spreadsheet, so, yes, I'm familiar with Excel  
17     spreadsheets.

18                   These are copies of mine because there's -- my  
19     writing is on here, so I have them duplicated here. Yes,  
20     these are the data -- let's see how far it goes --  
21     through May 12th, it looks like.

22          Q.     Okay. So --

23          A.     I'm sorry; May '12. 5/12, yeah. And that --  
24     and I believe that the plant started operation in June of  
25     '11, so I have to do -- I have the metered data through

1 May of 2012 in the document you gave me.

2 Q. Okay. So with respect to this document, I'll  
3 represent to you that there are Excel spreadsheets  
4 similar to page 1 and then there are other spreadsheets  
5 similar to page 2, similar -- the page 2 on here, which  
6 is -- says "City of Willits" and then "(90092) Monitoring  
7 Report for the Month of May 2010."

8 A. Yes.

9 Q. Okay. Was this document created by you?

10 A. No.

11 Q. Okay. So both the page 1 spreadsheet and the  
12 second page spreadsheet were documents -- these are hard  
13 copies that you received from the City of Willits?

14 A. Yes. No. They were not hard copies. They  
15 were on a disk. I printed them out.

16 Q. Okay. But they were basically documents you  
17 printed directly from the disk?

18 A. Yes.

19 Q. And what's your understanding of the difference  
20 between these two documents?

21 A. I've got to look at them again. I believe they  
22 just -- they just repeat the same data in a tabular form.

23 Q. Okay. Let's look at the first page for May  
24 2010. In looking at the column headings, it says,  
25 "Influent Totalizer." What's your understanding of what

1 that means?

2 A. That is a flow meter that measures the number  
3 of gallons of flow that flows past it, like an odometer.

4 Q. And then it says, "Influent Flow, MGD"?

5 A. That means "million gallons a day."

6 Q. Okay. Next column says, "RAS Totalizer." What  
7 does "RAS" stand for?

8 A. I think it means "Return Activated Sludge."

9 Q. And then it says "RAS Flow, MGD"?

10 A. Yeah, that's just millions gallons of day of  
11 return activated sludge, recycling the sludge.

12 Q. And what is "sludge"?

13 A. It's the stuff that gathers on the bottom of  
14 your clarification ponds, your treatment ponds.

15 Q. And then next is "WAS Totalizer."

16 A. That's "Waste Activated Sludge."

17 Q. And then "Effluent Totalizer."

18 A. I believe that's the measure of the treated  
19 water coming out of the treatment plant.

20 Q. Okay. So, for example, if I was to look at  
21 May 1st, 2010, there was 536848 gallons that went  
22 through -- into the plant?

23 A. No.

24 Q. Okay. Explain it to me.

25 A. That is the meter reading on May 1st before

1 anything went into the plant.

2 Q. Oh, I see. And then what's the next day?

3 A. Day 2 is a higher number, so you have an  
4 additional number of gallons going past that point.

5 Q. So it actually increases with each passing day?

6 A. That's right. And the influent flow numbers,  
7 you get in million gallons a day. Like for instance, the  
8 1.76, you take the second day's reading, 538612, subtract  
9 it from 536848 and you divide by 1,000 and you get 1.76  
10 as your million gallons a day -- I'm sorry, divide it,  
11 yeah. I think these meters are in thousands of gallons,  
12 I believe.

13 Q. Okay. And then if we go over, there's an  
14 "Irrigation" column.

15 A. Correct.

16 Q. And that would be the flow that is going out to  
17 an irrigation system?

18 A. Correct.

19 Q. And then there's "Creek Height" and "Creek  
20 Flow," correct?

21 A. Yes, they have a hydrograph for the depth of  
22 water in the creek. I think that's what they mean by  
23 "creek height." You have a certain flow for that  
24 profile, and so the higher the creek height, the larger  
25 the flow. And then they just go to that chart and record

1 that creek flow number.

2 Q. Okay. Did you receive any other data from the  
3 City of Willits regarding the sewer plant operations that  
4 were provided to you by the City of Willits as opposed to  
5 Mr. Neary?

6 A. Yes. I wrote another letter requesting more  
7 information.

8 Q. Okay. And what did you get?

9 A. And I believe I got the -- from -- I've  
10 forgotten exactly what I got, but I got enough to  
11 complete the entire record to December of 2013.

12 Q. Okay. And is that what you're holding?

13 A. Yes.

14 Q. Do you know why the format is so different?

15 A. Different than what?

16 Q. Than page 1 of Exhibit 173.

17 A. Well, these are just the reporting of their  
18 meter readings for one month. That's the spreadsheet  
19 showing -- taking this data for all the months of record  
20 that I had and computing the actual average million  
21 gallons a day, turn that into million gallons a month by  
22 multiplying that figure by the number of days in a month  
23 and doing that for the influent, the effluent of the  
24 treatment plant, the flow to the creek and the flow out  
25 to the irrigation.



1 Q. Okay.

2 A. And niggling the numbers to come up with the  
3 differences.

4 MR. CROWLEY: Did you create the document?

5 THE WITNESS: Yes, I did. I made that.

6 BY MR. BARTOLOTTA:

7 Q. So this is your work?

8 A. Yes, it is.

9 MR. CROWLEY: I thought that there may have  
10 been some confusion as to whether he got that from the  
11 City of Willits.

12 THE WITNESS: No.

13 BY MR. BARTOLOTTA:

14 Q. And this other page, is this a continuation or  
15 is it the same thing?

16 A. Another copy just marked up.

17 Q. Okay. I'll tell you what. Why don't you give  
18 me your marked-up copy and I'm going to go make copies of  
19 it and I'll give you the original back.

20 A. Just make sure it's the same copy. Do you have  
21 a 141 down at the bottom there in bold?

22 Q. No.

23 A. You're right. This is the one you want. I'll  
24 explain the difference. That's the one you want.

25 Q. Why don't you give us both.

1           A.       This doesn't make sense because I tried a trick  
2 here and I've got to explain that to you.

3           MR. BARTOLOTTA: Well, I'd love to talk to you  
4 about a trick.

5           THE WITNESS: All right.

6           (Off the record.)

7           MR. BARTOLOTTA: Okay. So let's talk about  
8 these in the order that I have them right now. I'm going  
9 to mark them first -- why don't we go ahead and mark this  
10 first one.

11                               (Deposition Exhibit No. 174 was  
12                               marked for identification.)

13 BY MR. BARTOLOTTA:

14           Q.       We're looking at Exhibit 171. I'm going to  
15 mark them 171-A, B --

16           A.       Is that A?

17           Q.       Yes.

18           A.       What's B?

19           Q.       Don't get so excited here. C is the back of  
20 one of these pages.

21           A.       Oh.

22           Q.       And then D. Okay. So explain what Exhibit 174  
23 is to me.

24           A.       It's 174, not 171?

25           Q.       Correct.

1       A.     I wrote it down 171. D -- it's best to start  
2 there -- is just the accounting of the influent/effluent  
3 from the treatment system from May '10 to May '11, the  
4 effluent, EF-1 is from the old plant and then in June of  
5 '11 it goes to EF-2 which is from the new plant.

6       Q.     Okay.

7       A.     But the influent, the first column, the date  
8 column is the influent of the plant.

9       Q.     Okay.

10      A.     And then each meter reading, the influent, for  
11 instance, has the average million gallons per day per  
12 date.

13      Q.     Okay.

14      A.     And then the next column is million gallons a  
15 month for that month. And that's gotten by taking the  
16 average million gallons a day for that month times the  
17 number of days in the month.

18      Q.     So if I'm looking at Exhibit 173 --

19      A.     Yes.

20      Q.     -- you took this number here, 1 point --

21      A.     They have an average number at the bottom of  
22 the page.

23      Q.     Okay. So you took the average, which was 1.52,  
24 for the month of May 2010?

25      A.     Well, I actually used the number on the second

1 page, I believe. Maybe I -- yes. There's a better  
2 number, 1.525. I think I took that average.

3 Q. I'm sorry. Say that again.

4 A. They only have it as two decimal places, 1.52.

5 Q. Okay.

6 A. And I actually averaged it and got 1.525.

7 Q. Okay. Then you multiplied that by the number  
8 of days in the month?

9 A. Right.

10 Q. And come up with the millions of gallons per  
11 month?

12 A. Right.

13 Q. Okay.

14 A. And I did that for the influent. That's the  
15 first two columns, average millions gallons per month.  
16 Effluent from the old and new plants, the next two  
17 columns. And then they have "Discharge to the Creek"  
18 from October -- "01 October to May 14th" from their meter  
19 readings for creek irrigation, EF-3 I think it is. And  
20 the same technique, average million gallons a day and  
21 million gallons a month.

22 Next column, "Discharge to Irrigation"  
23 permitted fifteen days for October or when appropriate.  
24 Same thing. And then the rest of the spreadsheet beyond  
25 that to the right are computed numbers based on the

1 foregoing million gallons a month columns.

2 And so I wanted to find out how much of  
3 material went into the ponds. So what I did, even though  
4 I could tell by the meter readings that the water went  
5 from the treatment system, exited from the treatment  
6 system directly into the stream, I wanted to make sure I  
7 didn't lose anything. I wanted to account for that. So  
8 I routed it to the ponds and then I immediately took it  
9 out of the ponds to show it went -- let's say from the  
10 ponds, for instance -- for instance, on 6/11, because  
11 that's -- I didn't do that for the existing plant because  
12 the ponds weren't there. So you go to the line 6/11 when  
13 wetland ponds began operation in June '11. Discharge to  
14 irrigation in that month was 30 million gallons a month,  
15 so I said I'm going to put all that into ponds and I'm  
16 going to take it out of the ponds.

17 Q. Okay.

18 A. Okay. And so I have nothing in the ponds.  
19 Cumulative ponds is zero for that month.

20 Q. All right.

21 A. Same with the next month, July, August. 24 for  
22 July went into the ponds, came out of the ponds.

23 Q. Okay.

24 A. August, 20 went -- was irrigation that went  
25 into the ponds, come -- went to the ponds, came out of

1 the ponds.

2 Q. Okay.

3 A. And then same thing happened through October.  
4 So November.

5 Q. You skipped to November 2011?

6 A. Yeah, they can't discharge to irrigation  
7 because only to September. So I have EFF-2 is 21, put  
8 that on the fourth column under the EF-1, EF-2.

9 Q. I'm sorry; you're looking at November or  
10 October?

11 A. This last column, November. The white space  
12 below irrigation, "discharge to irrigation," the first  
13 white space (indicating). Right here.

14 Q. Yeah, that's October, not November.

15 A. I better go with a straight line too. There we  
16 go. Okay. I was cockeyed. We want October.

17 Q. Okay. I'm looking at October.

18 A. So we have 21 million gallons coming out of the  
19 treatment system.

20 Q. Correct.

21 A. And we have 21 million gallons going to the  
22 pond.

23 Q. All right.

24 A. Because there is no discharge to creek and  
25 there's no irrigation.

1 Q. Okay.

2 A. The only place it can go is the pond.

3 Q. Okay.

4 A. So now I have 21 million gallons in the  
5 ponds --

6 Q. Okay.

7 A. -- as of the end of that month. And then we go  
8 to November of 2011, we have 22 million gallons coming  
9 out of the treatment system. It can only go to the  
10 ponds. It didn't go anywhere else that I could see, so  
11 we've added 21 and 22 and got 43 million gallons in the  
12 ponds.

13 Q. All right. Same --

14 A. Same thing happens in December.

15 Q. Right.

16 A. And 15 more million to the ponds.

17 Q. Okay.

18 A. And then in January, the creek is high enough,  
19 we've got 25 million gallons coming out of the treatment  
20 plant. And then I'm assuming that -- I want to make sure  
21 I have the accounting of ponds correctly, so I say let's  
22 put 25 million gallons into the ponds, take 17 out  
23 because that's what was lost by irrigation, according to  
24 the -- discharge to creek, excuse me, right?

25 Q. Right.

1           A.     So the storage in the ponds did not increase by  
2     25, it increased the difference between 25 and 17, so it  
3     now holds 67 million gallons.

4           Q.     Okay.

5           A.     And I did the same thing -- and then in  
6     February 2012, 35 million gallons from the treatment  
7     system, 35 million is in the ponds, 35 million is out of  
8     the ponds, the ponds remain unchanged because the 35  
9     million went to discharge to the creek.

10          Q.     Right.

11          A.     And you go to 3,000 -- I'm sorry; where am I?  
12     March, 30 million gallons from the treatment system, 30  
13     million into the ponds, 70 out of the ponds because the  
14     discharge to creek was 70.

15          Q.     Okay.

16          A.     So what's remaining in the ponds is 26.

17          Q.     Right.

18          A.     And then April is the same thing; 60 comes out  
19     of the treatment system, 60 goes into the ponds, out of  
20     the ponds by discharge to the creek and they still have  
21     26.

22          Q.     Okay.

23          A.     That's the whole sequence of this thing going  
24     down. I did the same thing for irrigation, instead of  
25     when irrigation starts, then they irrigate.



1 Q. Okay.

2 A. But I always route it into the ponds first so I  
3 don't lose track of what goes into the ponds. It makes  
4 sense, the accounting is correct, so I didn't lose what  
5 goes into the ponds.

6 Q. So by the end of this December 2013, there's  
7 141 million gallons in the ponds?

8 A. That's by my accounting that should have been  
9 in the ponds.

10 Q. Okay. Was it --

11 A. No, because the ponds only hold 87 million  
12 gallons.

13 Q. Okay.

14 A. Total. That's full. They're only permitted to  
15 have half of that capacity.

16 Q. Okay.

17 A. So where did the water go? I can't think of  
18 any place but leakage.

19 Q. Okay. Is there a possibility that the meters  
20 are incorrect?

21 A. Sure.

22 Q. Okay. Did you do anything to determine whether  
23 the metering information that you obtained was accurate  
24 metering information?

25 A. No.

1 Q. What would you need to do to do that?

2 A. Have an expert. I'm not an expert in metering.  
3 Have an expert and check the meters by another method and  
4 make sure they're correct.

5 Q. So you're assuming that the information  
6 provided from Willits regarding the amount measured by  
7 the meters is accurate?

8 A. Yes.

9 Q. And so in terms of the leakage, this is leakage  
10 that would have been from the storage ponds after  
11 treatment; in other words, the wetlands?

12 A. That's correct.

13 Q. Okay. Did you see anything upon your visual  
14 inspection of the wetlands that would indicate leakage?

15 A. Yes, as I mentioned before, that aura of greens  
16 were outside a 20-foot perimeter, let's say.

17 Q. Let's say --

18 A. All around it.

19 Q. And you have photographs of that which have  
20 been provided to me?

21 A. That's correct.

22 Q. Okay. Any other evidence other than the  
23 increased growth in the vegetation?

24 A. The low levels in the pond. Every time I  
25 visited, it was really low.

1           Q.     And so in terms of leakage, did you see places  
2 where there was any kind of break in berms or anything  
3 physical like that?

4           A.     No.

5           Q.     So in terms of leakage, have you drawn any  
6 conclusions as to whether this is leakage that's  
7 occurring from the bottom of the pond because of  
8 inadequate compaction or lining versus some other  
9 physical defect in the ponds?

10          A.     I hadn't thought about the difference between  
11 through the embankment and through the bottom of the  
12 ponds until just now, but I do have an opinion on that.

13          Q.     What is your opinion?

14          A.     The embankment must have been compacted to  
15 engineering standard. You could not put uncompacted fill  
16 in the pond. You have to compact them, and that would  
17 reduce permeability. But the bottom of the ponds, as far  
18 as I understand it looking at the construction drawings,  
19 were not compacted or lined.

20          Q.     Okay.

21          A.     So whatever that soil is, and I think it's Yolo  
22 loam, would be the permeability -- it would have the  
23 permeability of Yolo loam, which is the silt/sand  
24 mixture, not a clay.

25          Q.     Have you reviewed any of the pleadings in this

1 case? Have you reviewed --

2 A. I'm sorry; reviewed the what?

3 Q. Pleadings. Have you reviewed the First Amended  
4 Brooktrails Township Cross-Complaint to the City of  
5 Willits First Amended Cross-Complaint?

6 A. Not to my knowledge.

7 Q. Okay. So I believe one of your opinions stated  
8 was that there is an increase during rainy season because  
9 of rising groundwater and that this increased the  
10 infiltration of the amount of water going into the  
11 system?

12 A. Into the sewage collection pipes.

13 Q. Okay. What's the basis for that opinion?

14 A. No other possibility.

15 Q. You've eliminated all other possibilities?

16 A. I can't think of any other possibility.

17 Q. Okay. Have you obtained documents regarding  
18 the City of Willits' collection system?

19 A. No.

20 Q. Did you ask for any?

21 A. No.

22 Q. Why not?

23 A. I wasn't asked to. It wasn't my charge.

24 Q. Well, first of all, why were you asked to  
25 look -- were you asked to look as to whether there was

1 infiltration in the Willits' collection system?

2 A. No, I was not.

3 Q. Were you asked to look at the collection system  
4 for Brooktrails?

5 A. No.

6 Q. Have you obtained any information regarding the  
7 collection system for Brooktrails?

8 A. No.

9 Q. And when I say "collection system," I'm talking  
10 about the system of sewer pipes that exists under each of  
11 these municipalities. You understand that?

12 A. Yes, I do.

13 Q. What information do you have about the current  
14 condition of Willits' collection system?

15 A. None.

16 Q. Do you know how old it is?

17 A. Let me rephrase that. I have flow information,  
18 effluent coming into the plant during the rainy season,  
19 which is often three to four times what it is in the dry  
20 season. The only mechanism I can think of to cause that  
21 rise would be more water coming into the pipes, and the  
22 only reason -- only place I can see that coming from is  
23 groundwater leaking into the pipes. And in the rainy  
24 season, groundwater is high.

25 Q. Okay. In terms of a data point in support of

1 your opinion, you have inflow into the system during  
2 rainy season and inflow during dry season?

3 A. That's correct.

4 Q. Do you have any other data points that you are  
5 using to arrive at that opinion?

6 A. No.

7 Q. And is the inflow data that you have  
8 distinguished between inflow coming from Willits versus  
9 inflow coming from Brooktrails?

10 A. No.

11 Q. So it's inflow from both Brooktrails and  
12 Willits?

13 A. That's my understanding.

14 Q. And what have you done to eliminate the  
15 possibility that the Brooktrails' collection system is  
16 resulting in the increase of inflows?

17 A. I was asked to review the Brooktrails metered  
18 flow. They have their own meter.

19 Q. Okay.

20 A. And verify there's a certain percentage of the  
21 total flow, so I know they have their own meter to  
22 measure their own effluent, let's call it. And Chris  
23 Neary tells me that they increase their flow in the  
24 winter months from, I don't know, 100 million gallons --  
25 I don't know what it is, but it's twice or three times

1 what it is in the dry months.

2 Q. What documentation?

3 A. I don't have any of that. He just told me.

4 Q. What information do you have to verify the  
5 information that Chris Neary told you?

6 A. None.

7 Q. What information do you have as documentation  
8 to verify the outflows from Brooktrails metering?

9 A. Chris gave me a copy of the deposition of  
10 Thomas Mannatt and the Order and a bunch of other  
11 documents to review, and one of those is Brooktrails  
12 meter readings on tab 155, one page. I have not looked  
13 at that. It's just there.

14 Q. I'm sorry; what do you mean you have not looked  
15 at this?

16 A. I have not looked at that and computed the  
17 flows compared to the flows data I got from Willits, but  
18 I have reviewed --

19 Q. Well, so let me ask you, do you know whether  
20 these flows show an increase of three to four times --

21 A. No, I have not looked at them.

22 Q. Why not?

23 A. I wasn't asked to.

24 Q. Well, you were given the whole deposition?

25 A. Yes, that's true. And I looked at that, but I

1 didn't make -- I didn't -- I know it's there essentially.

2 Q. Okay. And these are meter readings for  
3 basically a one-year period? Well, one year and one  
4 month. It goes from January 1st to January 1st. Do you  
5 know what year this is? It says 2013, but do you know if  
6 that's actually 2013?

7 A. No, I do not know.

8 Q. Do you know -- have you compared the  
9 information in -- Exhibit 155 to the deposition of Thomas  
10 Mannatt, M-a-n-n-a-t-t, have you compared this  
11 information to the meter readings that you had from  
12 Willits?

13 A. You mean the Brooktrails reading and this  
14 document?

15 Q. Yes.

16 A. No, I have not.

17 Q. Do you know what the rainfall totals were for  
18 the time period reflected in Exhibit 155 for this  
19 deposition?

20 A. No, I do not.

21 Q. Do you actually have the meter data from  
22 Willits for 2013?

23 A. Yes.

24 Q. And in terms of your analysis of the  
25 infiltration that's occurring from the Willits'



1 collection system, did it include 2013 data?

2 A. Yes.

3 Q. So in terms of the ability to compare  
4 information between Brooktrails' metering system and the  
5 metering -- well, strike that.

6 Do you actually have data of Willits' metering  
7 system?

8 A. Yes.

9 Q. So coming from -- in other words, from Willits  
10 itself as opposed to --

11 A. No.

12 Q. Okay. That's what I'm trying to figure out.  
13 So basically what you could do is you could look at the  
14 inflows into the plant, subtract out what Brooktrails  
15 says it's metering and then determine what Willits'  
16 inflow is?

17 A. Correct.

18 Q. Is there any other source of inflow other than  
19 Brooktrails and Willits?

20 A. No, not to my knowledge.

21 Q. But you have yet to actually compare and  
22 subtract out the Brooktrails' metering from the 2013  
23 inflow data for the plant?

24 A. That's correct. Solely for Willits residents  
25 you're saying? Yes, I have not done that.

1 Q. Okay. Do you have that in front of you?

2 A. Have what in front of me?

3 Q. The inflow data from -- for 2013?

4 A. That the City provided their data?

5 Q. Correct.

6 A. Where would I find that? Is that already  
7 marked?

8 Q. Is it on this sheet by chance?

9 A. That's my compilation of it. That's not their  
10 records.

11 Q. Even if I'm using your compilation --

12 A. Yes.

13 Q. In other words, I'm asking, does this include  
14 all of 2013?

15 A. Yes, it does.

16 Q. Okay. And before we move on, I wanted to ask  
17 you, so the way I did this with Exhibit 174, I marked  
18 them A through D. Can you tell me what A is? Maybe you  
19 can -- this is page A. Why is this different than page  
20 D?

21 A. I don't -- I have some calculations in pencil  
22 on my copy that's Xeroxed on yours. I don't know what  
23 that is. I forgot what I did there. I can't comment on  
24 that, but the only difference between the D and the A  
25 exhibit in 174 is the column for cumulative ponds,

1 million gallons, on A there's a figure all by itself,  
2 2.1.

3 Q. Correct.

4 A. The top of the column, that is what I put the  
5 value. What I was trying to do is see what the monthly  
6 million gallons lost would be to make the final total in  
7 December '13 come out to be around 100,000 gallons. So  
8 this 2.1 is a figure I could change. And the spreadsheet  
9 formula for the cumulative ponds in the column under  
10 million gallons, it takes the formula in Exhibit D, the  
11 figure in Exhibit D, and every month subtracts 2.1  
12 million gallons.

13 Q. So that 2.1 million is a compensation for  
14 evaporation and transpiration?

15 A. Or infiltration. I wanted to see what the  
16 infiltration had to be so that the total -- without going  
17 too negative in the intervening months, given the data,  
18 what it would have to be at a maximum to have 100 million  
19 gallons left in the reservoir.

20 Q. And that would be --

21 A. That was 2.1. And I could just -- by changing  
22 this one number, it would change all the other numbers  
23 immediately. I didn't have to reenter it. That's why  
24 that's there.

25 Q. Let me understand and repeat it back to you and

1 see if I understand it correctly. So Exhibit 174-A is  
2 the same as D except for you have entered a number, 2.1,  
3 which is under column "cumulative ponds"?

4 A. Correct.

5 Q. And that this 2.1 is an amount that is lost in  
6 the ponds on a monthly basis through evaporation,  
7 transpiration and infiltration through leakage?

8 A. That's correct.

9 Q. And that's basically an assumption you made so  
10 that you could see what the water levels would look like  
11 with the assumption that amount was being lost?

12 A. How the stored amount would change month to  
13 month if it lost that much a month.

14 Q. Okay. Got it. Now let's look at B. Is B  
15 different?

16 A. B is different in that I did not put a place to  
17 store the number, the 2.1, in the spreadsheet. I just  
18 changed it in the formula for the cumulative ponds and  
19 ran the analysis.

20 Q. So --

21 A. So it's embedded in the number. I do not know  
22 what number I put in there.

23 Q. Oh, okay. So if we look at A, you used 2.1; B  
24 used a different number, but that's not reflected?

25 A. Right. And it must have been a smaller number

1 because what's left at the end of 12/13 is 123 million  
2 gallons, not 99 on the 2.1.

3 Q. Okay. These pencil marks that are over on the  
4 column under MGM, what are those, if you recall?

5 A. I don't recall.

6 Q. They look like the sum of the amounts  
7 bracketed.

8 A. Could have been. That's a good guess. I just  
9 don't know.

10 Q. Okay. C was actually on the back of your  
11 original. I assume these are just some place where you  
12 could actually make notations of data?

13 A. I think that was the document number off the  
14 disk that I was able to get the data for the months  
15 shown.

16 Q. Got it. Okay. Other than this Exhibit 155  
17 attached to Tom Mannatt's deposition --

18 A. Yes.

19 Q. -- do you have other Brooktrails' metering  
20 data?

21 A. No.

22 Q. Okay. That's your copy.

23 Okay. So getting back to the issue regarding  
24 infiltration from the Willits' system, you indicated that  
25 basically the only way that you can -- the only source of

1 the increase in inflows that you see would be a result of  
2 problems with the collection system in the City of  
3 Willits?

4 A. Yes.

5 Q. Okay. And --

6 A. Or let's be fair. If Brooktrails leaks too,  
7 because it's combined flow of Willits and Brooktrails, so  
8 I would imagine both are contributing during the wet  
9 season.

10 Q. What's the mechanics of how that would work?

11 A. You've got cracks in the pipe or leaks in the  
12 joints in the pipes. And normally if the water level is  
13 below, you get seepage coming out of the pipe, not into  
14 it.

15 Q. Okay.

16 A. And when water is higher than the pipe, it goes  
17 into it.

18 Q. How -- so what you're saying is that there's  
19 actually a -- the level of the groundwater increases and  
20 gets closer to the surface as there's precipitation?

21 A. It rises above the elevation, call it, of the  
22 pipe.

23 Q. Okay. And what evidence is there that the  
24 groundwater level rises above the elevation of the sewer  
25 pipes?

1       A.     I don't have any evidence. The pipes are eight  
2 feet deep or something like that. And I've had several  
3 monitoring projects where I have groundwater monitoring  
4 wells in Willits and often the water is four feet deep  
5 going to ground.

6       Q.     And what projects were those?

7       A.     Dave Rupe had a job at -- I forgot the address.  
8 Dave Rupe -- can't think of his address, but he's on Main  
9 Street in Willits.

10      Q.     Okay.

11      A.     During -- I was asked, I think in -- I forgot  
12 when this was, but sometime in the summer to check the  
13 water levels.

14      Q.     Okay.

15      A.     And all my sites had been closed, so I didn't  
16 have any wells to check the water levels in. So I asked  
17 the guys at the Willits Corporation Yard, I think it is,  
18 next to the library, if I could just check water levels  
19 in their wells. They were like six feet deep or  
20 something like that. And then I also checked some wells  
21 at the North Coast Railroad Authority site, railroad in  
22 Willits on East Commercial, and those are about the same  
23 level. This is -- I forget when this was, but it wasn't  
24 in the rainy season. It was a little past the rainy  
25 season.

1 Q. Okay. How many miles of sewer line make up the  
2 Willits' collection system?

3 A. I don't know.

4 Q. What is generally -- I assume that these are  
5 gravity fed collection systems?

6 A. I assume also.

7 Q. Okay. Do you have any information --

8 A. I do not know anything about the construction  
9 or characteristics or shape of the collection system.

10 Q. Okay. Do you know anything about the  
11 maintenance of the collection system?

12 A. No.

13 Q. Do you know anything about the geographical  
14 area that it covers?

15 A. Only to know it serves the City and I know how  
16 big the City is. It must go to the City limits, I would  
17 assume.

18 Q. What about Brooktrails, do you know about their  
19 collection system?

20 A. No, I don't.

21 Q. Do you know the geographical area that the  
22 collection system of Brooktrails covers?

23 A. I don't know.

24 Q. In terms of the average elevation, does that  
25 have any significance in terms of the level -- the height



1 of the groundwater during rainy or dry season?

2 A. Average elevation of what?

3 Q. The land.

4 A. Generally groundwater tends to be  
5 subparallel -- elevation of the groundwater table tends  
6 to be subparallel to the topography.

7 Q. What's "subparallel" mean?

8 A. It mirrors -- it's not exactly the same  
9 distance, but it looks similar in shape to the overlying  
10 topography.

11 Q. Okay. So it would not have a significant  
12 influence on the height of the groundwater?

13 A. Let's say the depth of the groundwater.

14 Q. The depth of the groundwater?

15 A. Yes, it will have some, but not a lot.

16 Q. Okay. Do you know if it has any effect on --  
17 if it makes any difference in this situation?

18 A. I do not know.

19 Q. Do you know anything about the soil conditions  
20 in and around the Willits' collection system and whether  
21 those would contribute to infiltration?

22 A. No.

23 Q. Do you know anything about the soil conditions  
24 in the Brooktrails' collection system and whether that  
25 would affect infiltration?

1           A.     No.

2           Q.     Okay.  Would that be information that could be  
3 helpful to you to know?

4           A.     No.

5           Q.     Why not?

6           A.     Because you're getting the overflow in the  
7 winter because the pipes are leaking.  It doesn't matter  
8 what the transmissivity of the surrounding soils are.

9           Q.     Okay.

10          A.     In my belief, they're leaking, so you fix them  
11 and they won't leak, they won't admit water.

12          Q.     So in terms of physical evidence of leaks in  
13 the collection system, you cannot necessarily make a  
14 distinction between the Brooktrails system versus the  
15 Willits system, correct?

16          A.     Correct.

17          Q.     They both may be having this issue?

18          A.     I assume they both leak.

19          Q.     Okay.  Have you ever worked on a project where  
20 you were assessing or evaluating the amount of leakage in  
21 a sewer collection system?

22          A.     Yes.

23          Q.     When was that?

24          A.     It was a new technique out.  They use an  
25 electronic method to actually scan for leaks, and I was

1 present during a demonstration of this.

2 Q. Okay.

3 A. In Mill Valley, I think it was.

4 Q. They would have that in Mill Valley, wouldn't  
5 they?

6 A. They didn't buy.

7 Q. And when was that?

8 A. A year ago.

9 Q. Okay. In terms of the infiltration that's  
10 occurring, is there anything that you've come across in  
11 your review of documents provided to you that would  
12 suggest that the City of Willits or individuals who are  
13 agents of the City of Willits knew that there was  
14 excessive infiltration into the Willits' collection  
15 system?

16 A. Only from the design documents where the peak  
17 flows are much higher than the average wet -- average dry  
18 weather flows, which tells me that they anticipated a lot  
19 more inflow into the system in the wet months versus the  
20 dry months.

21 Q. And did that document have a statement  
22 regarding the level of infiltration versus just the level  
23 of outflow?

24 A. You mean inflow to the system?

25 Q. Inflow. Sorry.

1           A.     No, just inflow.

2           Q.     There's no documents?

3           A.     The amount of water predicted to flow, you  
4 know, the high flows and low flows, that's just the  
5 range.

6           Q.     Did you ever see any document or receive any  
7 information that provided an explanation for those  
8 increases in flows?

9           A.     No.

10          Q.     And so your opinion is that it must have come  
11 from a porous collection system because that's the only  
12 thing that you can -- basically it's by process of  
13 elimination is where you get to that opinion?

14          A.     It's the only thing I could think of that would  
15 cause higher flows in the winter versus the dry period.

16                 MR. BARTOLOTTA: Could we take a break?

17                 MR. CROWLEY: Do you want to take a lunch  
18 break?

19                 (Lunch break taken from 12:06 p.m. to 1:04 p.m.)

20                         Afternoon Session

21                 MR. BARTOLOTTA: Back on the record.

22          Q.     I kind of want to go back a bit just to make  
23 sure I understand what you're giving opinions about and  
24 what you're not giving opinions about. And I'm not -- I  
25 don't want to review the designation again, but I

1 understand that your first opinion was that the facility  
2 was constructed as designed?

3 A. It appears to be, yeah, from what I can see.

4 Q. You're not giving an opinion as to whether  
5 there was an overdesign of the system?

6 A. No.

7 Q. Okay. Your opinions regarding the hydrology of  
8 Little Lake Valley really consists of the types of soils  
9 that are there, Yolo loam?

10 A. That's correct. And by inference from the  
11 other discussion, groundwater goes up and down  
12 seasonally.

13 Q. Okay. And then really what we've been talking  
14 about, the impact of inflow and infiltration rates both  
15 going into the system and outflow of the system?

16 A. Correct.

17 Q. Okay. Are there any other subject matters that  
18 you understand you're giving opinions on?

19 A. Yes. Well, you read those sentences of what  
20 I'm giving you opinions on. What exhibit is that?

21 MR. CROWLEY: I have it in front of me.

22 THE WITNESS: Here we go. "The operation of  
23 the Willits Wastewater Treatment Plant in fact and as  
24 permitted."

25 BY MR. BARTOLOTTA:

1 Q. Correct.

2 A. All right. We talked about the operation of  
3 the plant in fact where I mentioned the variance  
4 documents and the documents in support of the variance  
5 and the leakage of the wetlands. And I have a comment on  
6 "as permitted."

7 Q. Okay.

8 A. Okay? And this has to do with the variance  
9 granted where they went from 1-to-100 discharge into the  
10 creek to 10-to-1 -- or 1-to-10 in the creek. As I  
11 understand it, the Board -- Water Board permitted that  
12 because Willits said they would drop the  
13 concentrations -- the effluent concentrations of BOD and  
14 TDS from 30 to 10 milligrams per liter, as well as  
15 monitor for total nitrogen, which wasn't being monitored  
16 before; nitrogen was not.

17 And they dropped one contaminant, which is a  
18 byproduct of chlorination. I forgot the name of the  
19 contaminant, but they no longer have to monitor for that  
20 because they were going to UV.

21 Q. Because UV gets rid of chlorine?

22 A. It's a disinfectant just like chlorine.

23 Q. And that's --

24 A. This is a byproduct of chlorination which isn't  
25 going to happen anymore. But what they did is, for both

1 of those contaminants, they said, "Hey, you've got a  
2 ten-milligrams-per-liter limit on the effluent," and the  
3 previous pounds per day of that effluent was based on 1.3  
4 million gallons a day at 30. Okay? That's 39 times  
5 1.4 -- right? -- say, gallons of stuff for both TDS and  
6 BOD. If you multiply that by 8.34, the number of pounds  
7 per gallon, that gives you the 325 pounds per day  
8 permitted in the NPDES permit for the old plant.

9 The new plant used the 30 -- used the 10 for  
10 both constituents, milligrams per liter, but times 4  
11 million gallons because that's the new capacity of the  
12 plant. Well, that's 40 gallons per day times 8.34 is  
13 334, or something like that, pounds per day of those  
14 constituents.

15 So the new permit allowed them to put more  
16 pounds per day than the old permit of those constituents.

17 Q. Okay.

18 A. And the tradeoff was -- not much of a tradeoff,  
19 but they said, "Okay. Now you can put ten times the  
20 amount you used to put in the creek per flow."

21 Q. Okay.

22 A. So you went from a dilution factor of 1 over  
23 101 to 1 over 11.

24 Q. Okay.

25 A. All right? So you decreased the dilution by a

1 factor of nine and two-ninths, or something like, 9 times  
2 11 is 99, plus two more is 101. All right?

3 Q. Okay.

4 A. Make sense? So that means not only are you  
5 putting more BDS -- BOD and TDS into the creek per day,  
6 you're permitted to. I'm not saying to do it; they're  
7 permitted to, but you dilute it one-ninth as much as  
8 previously.

9 Q. Okay.

10 A. And the other parameters didn't change their  
11 concentrations -- effluent concentrations, so their  
12 dilution factor is also one-ninth of what it was.

13 Q. Okay.

14 A. So from the stream point of view and the end  
15 product environmentally, the new permit is worse than the  
16 old one.

17 Q. Okay.

18 A. I understand that, as a practicality, you can't  
19 put all the water into this slow-flowing creek. I  
20 understand why they did it, but you asked me -- the  
21 question was my opinion of it. It's worse than it was.

22 Q. Okay.

23 A. That's my opinion.

24 Q. However that is, is your understanding  
25 consistent with what's been represented to the Water



1 Quality Control Board and approved by them?

2 A. I'm assuming they approved it because it's in  
3 the NPDES permit. I don't know the process by which they  
4 went through it. All I know is here are the new  
5 standards and here's the new dilution ratio.

6 Q. You don't know what process the approving Board  
7 went through to arrive at those conclusions?

8 A. I assume they read the same report I did, the  
9 one prepared to show it wouldn't be a problem. And in  
10 that report, as I mentioned earlier, they assumed that  
11 the wetlands are going to be full and ameliorating the  
12 nitrogen, which hasn't -- five out of twelve months  
13 hasn't been ameliorated.

14 Q. Okay. With respect to the lawsuit between  
15 Brooktrails and Willits --

16 A. Yes.

17 Q. -- which is the subject matter of this case,  
18 are you aware of allegations by Brooktrails against  
19 Willits regarding the construction of the ponds and  
20 whether they are -- and whether there's defective design  
21 or defective construction?

22 A. I don't know the basis of the suit.

23 Q. Okay. Do you know who River Watch is?

24 A. Yes.

25 Q. Are you also an expert for River Watch?

1           A.     Yes.  Not an expert, I've been asked to prepare  
2 water balance -- updated water balance.

3           Q.     Okay.  So you say "water balance."  Can you  
4 explain what that means?

5           A.     The spreadsheet I showed you before.

6           Q.     Okay.

7           A.     This spreadsheet (indicating).

8           Q.     Above and beyond preparing that water balance  
9 spreadsheet which has been marked as Exhibit 174 --

10          A.     A, B, C, D.

11          Q.     -- have you been asked to do any other  
12 consulting work for River Watch?

13          A.     No.

14          Q.     Have you met with anybody from River Watch?

15          A.     Only Jack Silver in a meeting that Brooktrails  
16 called.  My very first contact with them was Jack and  
17 that's all I've ever met.  I've been communicating by  
18 e-mail with Jerry Bernhaut.

19          Q.     So you actually -- when you say you met with  
20 Brooktrails, who did you meet with at Brooktrails?

21          A.     I forgot -- there's a Board member's name.  
22 I've forgotten his name.

23          Q.     So you met with a Board member and Jack  
24 Silver --

25          A.     And Chris.

1 Q. -- and Chris Neary to discuss your role as a  
2 consultant for River Watch?

3 A. No. No. Just to go over the data I had  
4 already -- I had already assembled as far as getting  
5 records from the City.

6 Q. Okay. I guess my question is, was the work  
7 that you did about the infiltration on the output side of  
8 the plant related to the dispute between Brooktrails --

9 A. Yes.

10 Q. -- and Willits?

11 A. Yes. Yes.

12 Q. Okay. And do you understand what allegations  
13 had been made between Brooktrails and Willits as far  
14 as --

15 A. No.

16 Q. -- outflow?

17 A. No.

18 Q. Okay. So the work that you've done there  
19 that's in front of you, that is based upon metering data  
20 that was provided to you through the City of Willits  
21 public records request?

22 A. The data -- the 2013 data and a little bit  
23 before that, River Watch gave me that additional data,  
24 and then Brooktrails through Chris also gave me that same  
25 data.

1 Q. Okay.

2 A. And I compared, "Yeah, they're the same data,"  
3 so that's why this is the same chart.

4 Q. Okay. And do you have any understanding as to  
5 whether River Watch has actually filed suit against  
6 Willlits?

7 A. I don't know.

8 Q. Have you been paid by River Watch?

9 A. Yes.

10 Q. And so you've received compensation which shows  
11 up on --

12 A. No.

13 Q. -- this?

14 A. No, those are only the Brooktrails.

15 Q. So this invoice here --

16 A. That's all Brooktrails.

17 Q. Let me make a quick copy of this.

18 A. You can have that if you want.

19 MR. BARTOLOTTA: I'm going to mark it as an  
20 exhibit.

21 MR. CROWLEY: Okay. Fine.

22 (Off the record.)

23 MR. BARTOLOTTA: Mark that next in order.

24 (Deposition Exhibit No. 175 was  
25 marked for identification.)

1 BY MR. BARTOLOTTA:

2 Q. 175 I've marked is your invoices, and these are  
3 the amounts billed for the lawsuit we're here for today,  
4 correct?

5 A. I don't know if at the time I was doing this  
6 work there was a lawsuit, but this is the work I've done  
7 for Brooktrails.

8 Q. But you've also billed work directly for River  
9 Watch?

10 A. Yes, apart from these.

11 Q. Okay. And those bills, do they go to River  
12 Watch or do they go to Chris Neary?

13 A. River Watch.

14 Q. Okay.

15 A. I can explain what went on there.

16 Q. Sure.

17 MR. CROWLEY: Well, wait a minute. My only  
18 concern is I don't know if when you say "I can explain  
19 what went on there" if you're talking about your invoices  
20 or --

21 THE WITNESS: No, about the contract, my being  
22 hired by River Watch.

23 MR. CROWLEY: My only concern with that is  
24 that --

25 THE WITNESS: Are we off the record?

1           MR. CROWLEY: No, we can stay on the record.  
2 My only concern about you doing that, and you can choose  
3 to answer it how you see fit, is if you've been retained  
4 as a consultant, my understanding is, in the River Watch  
5 case --

6           THE WITNESS: Right.

7           MR. CROWLEY: -- you don't know if a lawsuit  
8 has been filed, you don't know if there's going to be a  
9 designation of experts, and you may be revealing stuff  
10 that would be considered attorney work product  
11 information if there's been conversations with you and  
12 the attorneys that represent River Watch. And you  
13 haven't been designated as an expert in that case, and  
14 Lee has asked you questions about it and I haven't  
15 objected, but when you say "I can explain what went on  
16 there," I just want you to be careful.

17           THE WITNESS: Well, maybe this will help.  
18 Chris told me that Jerry called him and said, "Don can  
19 share the information that's developed" --

20           MR. CROWLEY: Okay.

21 BY MR. BARTOLOTTA:

22           Q.     Okay.

23           A.     But I got involved with River Watch after --  
24 about a year past after Jack met with Neary, and he  
25 finally got on the ball and said, "Hey, can I hire" --

1 "Do you mind if I hire Don to finish the" -- "update the  
2 water balance," which is what you see in front of you,  
3 the updated water balance.

4 Q. Okay. So let me go through this. We've marked  
5 as 174 your invoices -- I'm sorry --

6 A. 175.

7 Q. -- 175 are your invoices. Your first entry on  
8 October 25th, 2012:

9 "Photograph ponds and embankments,  
10 calculate freeboard in three ponds and  
11 e-mail titled photographs to Chris Neary."

12 A. Uh-huh.

13 Q. How did you get access to the ponds and  
14 embankments?

15 A. I just walked in there.

16 Q. Did you have permission to do so?

17 A. Chris said I did. He said, "You're an agent of  
18 mine and you have free access."

19 Q. So Chris Neary gave you permission to access  
20 the Willits' treatment property?

21 A. Right. Right. Right. As an agent of  
22 Brooktrails or whatever he calls it.

23 Q. How long were you on the property when you did  
24 these photographs?

25 A. Two hours maybe.

1 Q. Okay. Were you walking around the plant?

2 A. Yeah, I live maybe half a mile from the plant,  
3 on the same road as the plant -- sort of the same road.

4 Q. Did anybody say anything to you about --

5 A. No.

6 Q. -- you walking around?

7 A. There was nobody around. I came in the stream,  
8 walked around and went home -- walked off to the field  
9 and went home.

10 Q. Well, at this juncture, were you photographing  
11 just the ponds and the embankment or were you actually on  
12 the plant property photographing plant equipment?

13 A. Oh, no, I never photographed plant equipment.

14 Q. The photographs that are in what you provided  
15 to me, where do those come from?

16 A. That was a subsequent visit.

17 Q. Okay.

18 A. Much later.

19 Q. Okay.

20 A. A year later.

21 Q. Okay.

22 A. Where Chris asked me to go -- because the plant  
23 was constructed and operating and he wanted to see what  
24 it actually looked like. So I met JC and his helper -- I  
25 forget, Nicky or something like that -- and I just, you



1 know -- "Can I take pictures?"

2 "Sure."

3 So I took pictures of the ponds and the UV  
4 building, all that stuff, laid out in the plant.

5 Q. You calculate freeboard in three ponds. What  
6 does that mean?

7 A. Freeboard is the amount of remaining height  
8 that the water can rise to before it overflows. So if a  
9 pond is ten feet deep and it has two foot of water, you  
10 have eight feet of freeboard.

11 Q. And how did you go about calculating that in  
12 this case?

13 A. By looking at this photograph here. You can  
14 see that that's a picture of the weir structure and one  
15 of the berms across. Based on this geometrical  
16 projection, I calculated that.

17 Q. Okay. And those are your handwritten numbers?

18 A. Yes, that's correct.

19 MR. BARTOLOTTA: I'm going to mark that next in  
20 order. It's a photograph -- actually, there are three  
21 photographs.

22 (Deposition Exhibit No. 176 was  
23 marked for identification.)

24 BY MR. BARTOLOTTA:

25 Q. Can you explain what these three photographs

1 are?

2 A. The first is -- I don't know if it's the first  
3 and second pond, a median, or the second and third. I  
4 don't know which it is. But it looks like I have -- you  
5 can see these projections across the weir structures,  
6 those straight lines. And I have 13 inches. That's the  
7 measured distance between the top rail and the bottom  
8 rail. And so I calculated what the actual freeboard was.  
9 It looks like seven and a half feet, because I took the  
10 top of the pond to be the top of the concrete structure.

11 Q. Do you know if, in fact, that top of the  
12 concrete structure is the top of the pond?

13 A. No, but it sure looks like it from -- because  
14 you can see the top of the berm on the other side by  
15 following that median all the way around, and I noticed  
16 they were all the same elevation when I walked around.  
17 Didn't have to step down to go over there.

18 Q. Did you confirm any of this with respect to  
19 looking at design plans or was it based upon what is in  
20 this exhibit?

21 A. I don't know, but I did have a copy of these  
22 things, the design plans, and it doesn't show any  
23 elevation difference in the median and the berm.

24 Q. What is the second page?

25 A. I think that's another -- another estimate from

1 a different view of the same data.

2 Q. And so these photographs were taken in --

3 A. I don't know.

4 Q. -- October 2012?

5 A. Yes. Yes. I was going to say -- yes, that's  
6 correct.

7 Q. And what's the significance of these findings  
8 in terms of the freeboard and the three ponds as  
9 calculated by you?

10 A. Well, the ponds are -- they have between 6.3  
11 and 7.5 feet of freeboard depending on how you look at  
12 the calculation.

13 Q. And what does that mean? I mean, what  
14 relevance does that have to your opinions?

15 A. At the time I didn't know, but I now think it  
16 should have been higher.

17 Q. So let me ask you, did you do these  
18 calculations at the time the photographs were taken or  
19 did you do the calculations at a later date?

20 A. Well, as my -- I photographed the ponds and  
21 embankments and calculated -- so it's probably the same  
22 day.

23 Q. Okay. And I'm going to be asking obvious  
24 questions.

25 A. Yeah, okay. That's fine.

1 Q. But that's my job because you're an expert and  
2 I have to do that.

3 Okay. Next you said "Review WWTP design  
4 plans."

5 A. Yes, these are -- you have some exhibits here.  
6 This was -- Chris gave me a PDF file with all the  
7 construction plans.

8 Q. Okay. Next you have:

9 "Review NPDES permit, compute wetlands  
10 capacity, review photographs taken on  
11 10/3/12 in sample location No. 2, and  
12 meet with Chris Neary."

13 A. Right.

14 Q. Okay. What is "compute wetlands capacity"?

15 A. That is shown, I believe, on this exhibit here  
16 (indicating).

17 MR. BARTOLOTTA: Okay. So we'll mark that next  
18 in order, and it's an Enhancement Wetlands Site Plan with  
19 handwritten notations.

20 (Deposition Exhibit No. 177 was  
21 marked for identification.)

22 BY MR. BARTOLOTTA:

23 Q. Okay. So can you tell me what Exhibit 177 is?

24 A. That is a to-be constructed view of the  
25 wetlands. And my -- and I have three ponds that are

1 separated by the weir structures and the barriers. And  
2 it shows the calculation of the scale in the area and  
3 then scaled up to what the actual feet were. It looks  
4 like one -- if you look on the first pond where it says  
5 "Cell 1" --

6 Q. Uh-huh.

7 A. -- there's a 100-foot notation there.

8 Q. Correct.

9 A. If you come down -- straight down there, you  
10 can see two lines that follow the sides of that and it  
11 has -- it says 0.3 feet -- sorry, inches. So that  
12 distance on paper is .3 inches. That means 100 feet  
13 divided by .3 inches is one inch equals 333.33 feet so I  
14 could get the scale on this so I could work with a ruler  
15 instead of trying to estimate.

16 Q. Did you actually receive something bigger than  
17 this?

18 A. No, this is it.

19 Q. And so the eight by ten sheet of paper is what  
20 you received; you didn't receive a full-sized as built --  
21 or to-be built plan?

22 A. That's correct.

23 Q. So then based upon your measurements, you  
24 calculated the potential -- the volume in each pond?

25 A. I calculated the area.

1 Q. Right.

2 A. And then I multiplied by ten feet because  
3 that's the design height of the embankment. And I got  
4 about, as I said there, 800 -- about 85 million gallons.  
5 That's 84.

6 Q. What's the .3 on the side there?

7 A. That's the distance on my scale that this 100  
8 feet makes.

9 Q. Okay.

10 A. And that's how I got the one inch equals 333.

11 Q. And then the calculations where it's A1, 2 and  
12 3, those are separate calculations for each pond?

13 A. Right.

14 Q. Then why is the total at the bottom 1,133,000?

15 A. That's the number of square feet.

16 Q. That's the number of square feet?

17 A. And you'll notice I took the area of the bottom  
18 of the ponds, not the top.

19 Q. Okay. Are the -- is there a difference?

20 A. Yes, because what I did next is multiply by ten  
21 feet -- that area times ten feet. So I discount any  
22 volume gain by the side sloping as you come up. So the  
23 bottom of the ponds have that area.

24 Q. Right.

25 A. Right? Assuming the sides were vertical --

1 Q. Right.

2 A. -- and held ten feet, that's the capacity I  
3 calculated.

4 Q. Okay. And in terms of the slope of the banks  
5 increasing the volume, how much variance would you  
6 estimate there would be?

7 A. Five percent maybe.

8 Q. Have you compared your calculations to any  
9 design specifications that were provided to you  
10 representing what the anticipated volume of the ponds  
11 would be?

12 A. Yes. They say the total area of the ponds is  
13 about 27 acres -- 27 acres.

14 Q. 27 acre-feet?

15 A. No; acres.

16 Q. Okay.

17 A. I've got to get my calculator. So if you take  
18 27 acres times ten feet, that would be 270 acre-feet. 27  
19 ten times, 270 acre-feet. There are 43,000 -- 43,560, I  
20 believe, square feet in an acre. Okay? That's 11  
21 million cubic feet.

22 Q. Okay.

23 A. Cubic feet now, times 7.48, that's how many  
24 gallons in a cubic foot.

25 Q. That's basically consistent with your --

1           A.       I've got 87 thousand -- 88 million gallons.

2           Q.       So with a possible five percent increase in  
3 your calculation to account for the slope on the banks?

4           A.       It pretty much matches, yeah.

5           Q.       The amount that's represented and the amount --

6           A.       Yeah. There's no question that they're correct  
7 in their volume, yes.

8                   MR. BARTOLOTTA: Another undisputed fact.

9                   MR. CROWLEY: The case should settle.

10 BY MR. BARTOLOTTA:

11           Q.       Okay. If you turn the page, the public records  
12 request that is outlined or discussed on November 19,  
13 2012, is that the one that we reviewed where you asked  
14 for the flow data?

15           A.       Yes.

16           Q.       Okay. So go to the -- it's the invoice for  
17 February 2013. There's an entry on January 25th, 2013.

18           A.       Invoice for February.

19                   MR. CROWLEY: Invoice No. 3072.

20                   THE WITNESS: Oh, 2013. Sorry. Yes, I was  
21 thinking the day, not the year. Sorry.

22 BY MR. BARTOLOTTA:

23           Q.       The description of your work is:

24                   "Discuss with Chris Neary information  
25                   that I should provide to Chris regarding



1                   completeness of City response to two  
2                   letters..."

3                   I assume that these were public request  
4 letters?

5           A.     Yes, I believe so.   Yeah.

6           Q.     Okay.

7                   "...and conflicts within CAO regarding  
8                   discharge to groundwater."

9                   What does that second part of the sentence  
10 mean?

11          A.     It's the cleanup and abatement order, I  
12 believe.   But it may -- I think it's -- I think that was  
13 the cleanup and abatement order, the one that they  
14 said -- I'm not sure that should have been the NPDES  
15 permit or not.   I think I was referring to this document,  
16 the NPDES permit.   I'm not sure.   I'm not sure.   As you  
17 said, if I don't know, say I'm not sure.

18          Q.     Okay.   If I turn the page, we're now on the  
19 March 1st invoice.

20                   "Review SMRs again in light of second  
21                   response from City of Willits."

22                   What are SMRs?

23          A.     Self-monitoring reports.

24          Q.     Okay.   And you then continue:

25                   "Review SMRs and modify effluent and

1 discharge flow spreadsheet."

2 A. Yeah, it was confusing, the data they were  
3 giving me. I couldn't make sense of it. I didn't know  
4 what went where. It was very confusing --

5 Q. You mean --

6 A. -- from what they gave me.

7 Q. So the information that they provided to you,  
8 you were comparing it to what?

9 A. Nothing. I was trying to make internal  
10 consistency of it.

11 Q. Okay. But internal consistency with respect to  
12 other information that they had already provided you?

13 A. Yes. Yes, the whole package.

14 Q. And were you able to do that eventually?

15 A. Eventually, yes.

16 Q. Did you find consistent -- inconsistencies  
17 between the flow rates that were provided and discussed  
18 in Exhibit 163 and the SMRs that were provided to you?

19 A. Yes. Those were in the SMRs as part of it.

20 Q. Okay. And my question is, were they  
21 consistent?

22 A. Yes. Yes. I finally understood it once I knew  
23 what was how and where. And I made sure that I directed  
24 all the effluent to the ponds first and then distributed  
25 where it went.

1 Q. Okay.

2 A. I think there was some question about -- the  
3 last one on February 28th.

4 Q. Yes.

5 A. There was some question about what EFF-1 versus  
6 EFF-2 was, and I finally got that straightened out.

7 Q. Understood. Okay. If you turn the page to the  
8 April invoice.

9 A. Uh-huh.

10 Q. On March 7th, 2013:

11 "Meet with Chris Neary and discuss  
12 findings regarding infiltration of treated  
13 water to groundwater and percent use of WWTP  
14 by Brooktrails."

15 Can you explain what that entry means?

16 A. Well, I showed him my spreadsheet as then -- at  
17 its current progress, and then he asked me to check  
18 columns of Brooktrails water metered versus Willits and  
19 make sure they're correct in the office.

20 Q. Okay. Did you receive documentation regarding  
21 the metered --

22 A. I may have. I do not recall. It's not in my  
23 file. I don't know where it is or if I got it.

24 Q. Okay. So you were looking at --

25 A. It's like a one-page thing, yeah.

1           Q.     You were checking Brooktrails metered inflow,  
2 outflow?

3           A.     I was not checking them, I was believing what  
4 was written and making sure the calculation was right as  
5 a percentage.

6           Q.     Okay. Did you keep notes of that?

7           A.     No.

8           Q.     You then note:

9                    "Check 2011 and 2012 percentage Brooktrails  
10                   influent to WWTP."

11          A.     Yeah, I must have had a copy now that I see it,  
12 but I don't know where it is.

13          Q.     Do you remember what those percentages were?

14          A.     They were about 20 to 25, something like that.

15          Q.     And that was for the entire year?

16          A.     I believe so, because it says "Check 2011 and  
17 2012 percentage Brooktrails influent." Two years, I  
18 believe.

19          Q.     Then you have:

20                    "Reviewed flow data e-mailed from Chris  
21                   and send reply e-mail with July-June 2010  
22                   and 2011 percent Brooktrails flows."

23          A.     I did more than I remembered then, yeah.

24          Q.     Did you produce those e-mails?

25          A.     Yes.

1 Q. Those are part of the production that I have?

2 A. Oh, no. No. No. No. No, they're not. No, I  
3 don't -- I didn't keep them.

4 Q. You --

5 A. Maybe I can get them. I don't know if they're  
6 deleted or not.

7 Q. Okay. Could you please look and see if you  
8 have those e-mails?

9 A. I will. Certainly.

10 MR. CROWLEY: Don, if you have them, call me  
11 and let me know or e-mail them to me and I will send them  
12 to the -- I'll provide them.

13 THE WITNESS: Sure. Okay.

14 BY MR. BARTOLOTTA:

15 Q. Okay. So now the next page, 5/1/2013 is your  
16 meeting with Chris, Jack Silver and Brooktrails Board  
17 members?

18 A. There we go. Yeah, I think there was a lady  
19 and a gentleman, Board members.

20 Q. Why were you having a meeting?

21 A. Chris asked me to come.

22 Q. Okay. And what was the subject that was  
23 discussed at that meeting?

24 A. The leakage from the ponds.

25 Q. Okay. Was there any discussion regarding

1 anything else other than the leakage from the ponds?

2 A. Not that I recall.

3 Q. Okay. Next page, June 2013:

4 "Reply to Chris Neary's e-mail regarding  
5 scope and cost of spray irrigation study."

6 Is this a spray irrigation study that you were  
7 proposing to do?

8 A. No. It's one required by the Order that was  
9 supposed to have been done by November 2011.

10 Q. Okay. So why were you giving an opinion  
11 regarding the scope and cost of that study?

12 A. Because Chris wanted me to prepare a cost  
13 estimate for doing it myself to compare with the bid from  
14 the City because I guess his opinion was that whoever  
15 Brooktrails -- Willits hired is going to be expensive and  
16 maybe I could do it cheaper, thereby saving Brooktrails  
17 money.

18 Q. Okay. And you actually did that, correct?

19 A. Yes, I did.

20 Q. So you made a written proposal to Willits to do  
21 work for them?

22 A. Yes.

23 Q. And --

24 A. I don't know if it ever got submitted to  
25 Willits, but I prepared it.

1 Q. Well, did you send it?

2 A. I sent it to Chris. Yes, as a matter of fact,  
3 the next month I said I e-mailed it to him.

4 MR. BARTOLOTTA: Okay. We'll mark that next in  
5 order.

6 (Deposition Exhibit No. 178 was  
7 marked for identification.)

8 BY MR. BARTOLOTTA:

9 Q. Had you ever prepared such a plan in the past?

10 A. No.

11 Q. Okay. At this juncture, were you aware that  
12 there was a lawsuit going on between Brooktrails and --

13 A. I believe I was, yes.

14 MR. CROWLEY: Let him finish his question.

15 THE WITNESS: He pauses. He has these pregnant  
16 pauses.

17 MR. CROWLEY: Wait until there's no more  
18 pauses. What it does is it makes --

19 THE WITNESS: It breaks it up.

20 MR. CROWLEY: And it makes her job really hard  
21 because she's trying to get your answer and then his  
22 question picks up.

23 BY MR. BARTOLOTTA:

24 Q. That's 178. Is that a copy of a letter that  
25 you prepared and sent to Chris Neary regarding the scope

1 and cost of a spray irrigation study?

2 A. Yes, but it's not spray irrigation, it's the  
3 evaluation of the water reclamation system.

4 Q. Okay.

5 A. Which involves spray irrigation as part of it.

6 Q. And do you know whether Chris Neary ever  
7 forwarded that to Willits?

8 A. I do not know.

9 Q. Did you ever have any communication with  
10 Willits regarding doing consulting work for them on that  
11 issue?

12 A. No.

13 Q. Flip over to September 2013 invoice.

14 A. Uh-huh. Yes.

15 Q. States, quote:

16 "Research Geotracker for UST sites at  
17 which monitoring wells are still present  
18 to allow water level measurement to be made."  
19 What's -- can you explain what that means?

20 A. Chris asked me to measure the water --  
21 groundwater depth in Willits as of August. Formerly I  
22 had a whole bunch of sites in Willits that I had  
23 monitoring wells that I could go to and measure, but mine  
24 were all closed. I had no wells. So I went to  
25 Geotracker, which it shows you -- if I type in and search



1 "Willits, California," it pops up with a map showing the  
2 UST sites that are still active.

3 Q. What does "UST" mean?

4 A. Underground storage tank sites, which means  
5 they have monitoring wells around them. So I found one  
6 at the City Corporation Yard and one at the NCRA depot,  
7 rail station.

8 And so it says I measured MW-6 at the Willits  
9 yard and then I got permission from their staff at the  
10 Corporation to measure one of their wells, several  
11 monitoring wells.

12 And then I went and looked at Geotracker again  
13 to look at the reports for the Willits yard and looked at  
14 their hydrographs for their previous ones and they were  
15 within the range of the seasonal variation. They weren't  
16 high or weren't low.

17 Q. Okay. And this was done obviously towards the  
18 end of the dry season?

19 A. Yes. Because apparently Chris said that the  
20 flows were unseasonably low.

21 Q. The flows from the --

22 A. Into the City, into the plant.

23 Q. Okay. Is there an explanation for that or did  
24 you verify that that was an accurate representation?

25 A. Yes. They're pretty low. Based on -- this is

1 2013, right? So based on my spreadsheet, it's -- it's  
2 pretty low compared to all -- all the yearly records.

3 Q. Have you done any other water level  
4 measurements in other times of the year other than those  
5 that are done here?

6 A. Not for Chris Neary and not in relation to this  
7 project.

8 MR. CROWLEY: Well, I don't want to -- I'm not  
9 sure if his question was limited to this case or this  
10 project, to use your words. If it was, then you may have  
11 answered it. I interpreted his question to be broader  
12 than that.

13 THE WITNESS: Could you repeat the question?  
14 BY MR. BARTOLOTTA:

15 Q. Sure. In relationship to your work in this  
16 action, have you checked --

17 MR. CROWLEY: Okay. You're right.

18 BY MR. BARTOLOTTA:

19 Q. -- the water levels at any other time of year?

20 A. No.

21 MR. CROWLEY: I misunderstood.

22 MR. BARTOLOTTA: That's fine.

23 Q. Do you have any data that suggests the level of  
24 increase, if any, that results at these two specific well  
25 sites during wet weather season? In other words, you

1 have:

2 "Measure water level as 8.17 feet from  
3 top of casing in MW-6 at NCRA Willits yard."

4 I assume that that's the depth at which you hit  
5 water level?

6 A. That's correct.

7 Q. And that was done in August of 2013, correct?

8 A. Correct.

9 Q. And have you done anything to determine the  
10 increase in the water level that results by testing in  
11 January or February or at some point when it's been  
12 raining?

13 A. Yes. And I checked for the City of Willits  
14 Corporation Yard.

15 Q. Okay. So that's the second one, correct?

16 A. Right. And I looked there because they have  
17 pretty good records. There hadn't been any work done on  
18 the NCRA site for a long time.

19 Q. Okay.

20 A. So the City of Willits has a very good history  
21 on Geotracker.

22 Q. Okay.

23 A. So I went to their latest monitoring report. I  
24 don't know who the consultant was, but they're posted  
25 there.

1 Q. Right.

2 A. And it shows you, part of the -- you've got to  
3 show a graph or tabular form what the historic water  
4 levels are throughout the year.

5 Q. Okay.

6 A. And when they used to monitor quarterly, it  
7 would be January, March, June and September and so forth.  
8 So I looked at that and I looked at the depth here, and  
9 it was right in the middle of the variation.

10 Q. Okay.

11 A. They were three feet; they were nine feet. So  
12 this was not unusual for this time of year. I looked in  
13 August, what the variation throughout the years in August  
14 was, and this was not high or low.

15 Q. Okay. And my question is, let's look at that  
16 particular site, did you do anything in relation to your  
17 work on this case to calculate what the difference is  
18 between dry season and wet season?

19 A. No. All Chris asked me to do is say if it's  
20 abnormally low or abnormally high.

21 Q. For that time of year?

22 A. Yes.

23 Q. You then say:

24 "Expenses, rental of company-owned water  
25 level meter used on August 13-14."

1           A.     I have a water level meter, electric meter.  
2     It's a tape with a sensor at the bottom. You lower the  
3     tape down and the two contacts at the bottom make contact  
4     with the water, the circuit is completed, the bell rings  
5     or the buzzer rings at the top so you know you hit water.  
6     That's how you measure water levels in a monitoring well.  
7     And there's a designated top of casing notch you measure  
8     from. It's set, surveyed, so I was able to compare depth  
9     to depth.

10          Q.     Okay. Did that information you obtained doing  
11     those measurements affect your opinion regarding the  
12     infiltration from Willits' collection system?

13          A.     I don't understand the question.

14          Q.     In other words, the information that you  
15     obtained regarding the depth of the water in August 2013,  
16     did that support your position one way or the other  
17     regarding the infiltration from the collection system?

18          A.     I have no position. All I'm relying on is the  
19     data that Willits gave me --

20          Q.     Okay.

21          A.     -- to tell me the inflow to the plant. That's  
22     all I relied on.

23          Q.     Sure. And I'm trying to just figure out, I  
24     mean you basically have said that your opinion is that  
25     the inflows to the plant are caused by cracks or gaps in

1 the collection system overall, Brooktrails and Willits,  
2 right? You can't really distinguish between the two.  
3 And so my question is, is I'm trying to figure out, is  
4 there anything that you did independent of your  
5 calculations to verify that it's a collection system  
6 issue in terms of the volume during wet season?

7 A. No.

8 Q. Okay. So let me ask it this way. Are you  
9 making the assumption that this collection system,  
10 assuming it was perfectly maintained and perfectly  
11 constructed, that there would not be an increase or  
12 decrease from wet to dry season; in other words, a closed  
13 system?

14 A. Yes.

15 Q. Are there any variations that can occur from  
16 dry weather to wet weather because of use of the system?

17 A. Use of the system means that if you get  
18 increased flows in the system, more septage is being  
19 created.

20 Q. More what?

21 A. Septage, more water -- more water to treat,  
22 solids and so forth. That can only come from humans. So  
23 unless there's an uptick in that kind of activity, that's  
24 the only reason I can see an increase in flow. And I  
25 don't see any reason for that uptick of activity over

1 months.

2 Q. So let me just kind of understand this. So in  
3 terms of the inflow into the plant, it's either going to  
4 be increase in human usage?

5 A. Correct.

6 Q. Or that there are leaks in the system that are  
7 allowing groundwater to get into the system?

8 A. Correct.

9 Q. Any other third, fourth possibility to account  
10 for the increase in flow?

11 A. I can't think of any.

12 Q. Okay. How much increase in flow is there?

13 A. Three times from -- about three times.

14 Q. Do you actually have the numbers that it goes  
15 from this to this?

16 A. The City has the numbers.

17 Q. Okay. But do you have them in one of your  
18 exhibits?

19 A. Yes. Exhibit 174.

20 Q. Okay. I have Exhibit 174. I just have to find  
21 mine.

22 So you're looking at a particular section on  
23 the page. Can you tell me what you're looking at?

24 A. It's just past the date column, the "Influent"  
25 "Average million gallons a day." We can either look at

1 the average million gallons a day or the million gallons  
2 a month. It's more instructive to look at million  
3 gallons a day because that takes the bias about the  
4 number of days in a month away.

5 So if you look at, for instance, December of  
6 2012 --

7 Q. Yes.

8 A. -- 3.279 million gallons a day average.

9 Q. Right.

10 A. And you go back to August of '11, .678. And  
11 you'll notice that if you go from August, September  
12 October, November, it gets bigger and bigger and bigger  
13 as you get toward the winter. And the highest there is  
14 January of '12, which is 2.7, which is more than three  
15 times the stuff in August.

16 Q. I'm sorry. I missed where you're looking at.

17 A. 12/11.

18 Q. Yes. 12/11.

19 A. 1/12. I'm sorry.

20 Q. 1/12.

21 A. Yes. That's the highest of that series, 2.714.

22 Q. Okay.

23 A. And then you go back five months or four months  
24 to August of '11.

25 Q. Right.



1           A.     It's .678. So from the end of summer to the  
2 rainy season, it's increased by four times, about. A  
3 little less than four.

4                   Then if you go to July of '12, 7/12, it's .82  
5 and then it really increases to 12/12 to 3.27. That's  
6 about a fourfold increase as well.

7           Q.     Okay.

8           A.     That's why I think that the groundwater rises,  
9 the pipes leak, more flow goes into the sanitary sewer  
10 based on this data alone.

11          Q.     Have you done anything to correlate these  
12 calculations with precipitation?

13          A.     No.

14                   MR. CROWLEY: It's a belated objection. When  
15 you use the term "these calculations" --

16                   MR. BARTOLOTTA: I apologize. The calculations  
17 on Exhibit 174-A.

18                   MR. CROWLEY: Well, my objection was, I didn't  
19 know that he'd actually calculated these amounts versus  
20 it was from data provided by the City of Willits.

21 BY MR. BARTOLOTTA:

22          Q.     Okay. Are you aware of the rate at which the  
23 depth of groundwater increases or decreases?

24          A.     In a general way, yes. I mean, if you get a  
25 really heavy rain, three or four days later, you've got

1 water levels that are much higher.

2 Q. And how quickly does that dissipate?

3 A. About the same time it took to rise. It stays  
4 a while. Actually, it rises -- I don't know. I can't  
5 say with precision.

6 Q. In terms -- still looking at that  
7 Exhibit 174-A, for July of 2012, you have this -- it  
8 says:

9 "E&D meters out, used average percent,  
10 INF-1 of June '10 and '13."

11 A. Yeah, the meters were out so I had to average  
12 them. So I picked the same month in the two years and I  
13 averaged those.

14 Q. And then the same thing with July?

15 A. Yes.

16 Q. You did that --

17 A. Yeah, I used the same number as July '10.  
18 However, if we want to use the .82 number because it  
19 wasn't recorded but just estimated, and I had to estimate  
20 it to complete the worksheet, to keep the monthly  
21 tabulation going. If we go to October of '12, it's .673.  
22 Two months later it's 3.279. That's like five times,  
23 four and a half times, in two months.

24 Q. Right. But you also don't have any information  
25 as to whether there was precipitation that would have

1 resulted in the groundwater level increasing, correct?

2 A. No. No.

3 Q. Okay. I mean, I'm just -- correct? In terms  
4 of -- well, let me ask you, have you reviewed any  
5 information wherein -- well, strike that.

6 Did Chris Neary ever tell you that Willits had  
7 understood there was an increased flow as a result of  
8 defects in the collection system and that this  
9 information had been withheld from Brooktrails during  
10 negotiation --

11 A. No.

12 Q. -- on the cost of the plant?

13 A. No, I have no knowledge of that.

14 Q. Okay. The information that you have in  
15 Exhibit 174-A, did you get information from an earlier  
16 date going back before May 2010?

17 A. No.

18 Q. Was the information that you collected or had  
19 available to you from the earlier plant consistent with  
20 the pattern in 2011, '12 and '13?

21 A. They appear to be a lot higher in -- that's two  
22 years. Yes, from May '10 to May '11, because the lowest  
23 ones are in August, a .71, but the highest ones are still  
24 pretty high. March of '11 is 3.469, so generally the  
25 pattern holds, but the flows are higher for some reason.

1 Q. Do you have any data from any date earlier than  
2 May 10th, 2010?

3 A. No, I don't.

4 Q. Would that be information that Willits would  
5 likely have available?

6 A. I don't know. Chris told me that they didn't  
7 have flow meters for like a span of eight years or  
8 something like that. And maybe 2010 was the first time  
9 they were recording flows. I don't know.

10 MR. BARTOLOTTA: Take a break for two seconds.

11 (Off the record.)

12 MR. BARTOLOTTA: Okay. We're back on the  
13 record.

14 Q. Are you aware of any other data prior to May  
15 2010 that could potentially be used to calculate the same  
16 thing you've calculated in 174-A?

17 A. No. I saw something with flow rates that  
18 had -- had, like, '92 or '90 they had flow rates. I've  
19 forgotten -- I thought there was like a ten-year span.  
20 May have even been 2001, I don't know, where they were  
21 missing flow. The meters weren't working. I do not know  
22 what happened before that, if the self-monitoring reports  
23 are different or whatever. I don't know.

24 Q. The last invoice I have here is from December  
25 of 2013. Do you have invoices that you sent to Mr. Neary

1 since then, I mean, the last three months?

2 A. I don't think so. I think I got reactivated,  
3 you might say, on this project this month.

4 Q. Reactivated?

5 A. Yeah, I believe so. I mean, I thought I  
6 checked all my invoices. If I hadn't, if I missed them  
7 in 2014, I'll send them, but I thought I did check in  
8 2014.

9 Q. Did you meet with Mr. Neary in preparation for  
10 today?

11 A. Yes, yesterday.

12 Q. At his office?

13 A. Yes.

14 Q. Nice Easter meeting?

15 A. Yes, very relaxed. We both said grace and then  
16 we proceeded.

17 Q. You have a note here in your invoice for  
18 December 2013:

19 "Provide e-mail reply to Chris Neary  
20 regarding Mike Phelan's e-mail to Chris  
21 Neary."

22 Do you remember what that is?

23 A. Oh, Phelan or "Phelan," whatever, he -- I think  
24 that was a letter complaining that when I visited the  
25 wastewater treatment plant, I was rude and discourteous.

1 That was news to me. So I said, "Me?" Because I wasn't.

2 Q. Okay. You know, I had a brief opportunity to  
3 look at the documents you produced. I wanted to briefly  
4 ask about the photographs that were included in your file  
5 that showed the outer slope of the pond berms.

6 A. Right. It's a view of parallel -- a profile  
7 you might say.

8 Q. Yes.

9 A. You see the inside and the outside?

10 Q. Correct. What did those depict that was  
11 significant to you in terms of photographs?

12 A. The water level of the -- in the wetlands in  
13 relation to the level of the land outside.

14 Q. And you had said something about the vegetative  
15 growth?

16 A. Yeah. The water level was about from -- just  
17 looking at the picture, about maybe a foot, a foot and a  
18 half higher than the growth, the land the growth was  
19 occurring on. So I could visualize a flow pattern of  
20 water going underneath and coming up in that situation.  
21 It was not out of the question that that growth was due  
22 to water coming from the wetlands.

23 Q. Okay. What was it about the vegetation itself  
24 that led you to believe that?

25 A. It's anomalous.

1 Q. How so?

2 A. It only exists in one place in that whole area  
3 and that's immediately around the embankment on the  
4 outside.

5 Q. What was the type of plant that was growing?

6 A. Same plants that were next to it but more  
7 vigorous and higher and greener.

8 Q. So your -- that plant growth, that is evidence  
9 to you that there is water leakage that is feeding those  
10 plants and making them healthier than the plants that are  
11 further away from the berm?

12 A. That's correct.

13 Q. Any other evidence regarding leakage? We  
14 talked about basically the water levels and your  
15 computations as to what should be in the ponds and what  
16 you found.

17 A. I'd expected them to be higher if it's a  
18 wetlands that are actually storing things.

19 Q. Okay. And then --

20 A. To be fair, I could be wrong. Maybe that's the  
21 design level. Whatever, I don't know.

22 Q. Okay. Then the vegetation that's growing on  
23 the -- close to but on the outside of the berm?

24 A. Right.

25 Q. Anything else?

1           A.     No.

2           Q.     Okay. In terms of the soil compaction within  
3 the ponds, do you have an understanding as to what the  
4 design plans require?

5           A.     My understanding is no compaction was  
6 specified. There was nothing to meet as far as  
7 compaction standards in the bottom of the pond, or a  
8 liner.

9           Q.     Is there a reason why you understood that was  
10 the design plan?

11          A.     Because it was not in the design. I read the  
12 design plans.

13          Q.     No; I know, but was there an explanation as to  
14 no liner or compaction was required?

15          A.     No. There was no disclaimer saying, "We did  
16 not include a liner because..." "We did not compact the  
17 soil because..." Nothing like that.

18          Q.     Okay. Do you know anything about the soil  
19 conditions in that location and how that would affect or  
20 not affect the need for compaction?

21          A.     Yes. It's Yolo loam which is a sand/silt  
22 mixture. It's not clay. And it's more permeable than  
23 clay.

24          Q.     Meaning?

25          A.     Meaning water will infiltrate readily through



1 it.

2 Q. And is there anything that you've seen in terms  
3 of the design plans that -- well, strike that.

4 In what you've read, was there ever discussions  
5 regarding placing a liner in the ponds?

6 A. Not --

7 Q. When I say "a liner," I mean clay.

8 A. It could be a plastic liner too.

9 Q. Okay.

10 A. Any relatively impermeable liner. No, there  
11 was not.

12 Q. Have you ever worked on a project to address  
13 questions of issues related to lining of ponds or  
14 reservoirs?

15 A. I reviewed documents years ago, and this spec  
16 was -- the conductivity had to be ten to the minus six  
17 centimeters per second or less to qualify as a relatively  
18 impermeable liner.

19 Q. Okay. So I just want to ask you about some of  
20 the documents that were contained in the directory and  
21 whether they were significant to you. One is an Agenda  
22 Summary Meeting, July 24th, 2013 from the City of  
23 Willits. This was part of your file.

24 A. Oh, I think this is where the City contracted  
25 them to do a -- yeah, the reclamation study, the work

1 plan reclamation study that I put a proposal in to Chris.

2 Q. Okay.

3 A. That's the first time I've seen that. I think  
4 this is what Chris gave me yesterday on his thumb drive  
5 which I gave you. I've only had it since yesterday.

6 Q. Oh, so wait a second. The thumb drive you gave  
7 me was actually provided to you by Chris Neary?

8 A. Yes. Documents on it -- I went home -- from  
9 the documents Chris gave me -- there's documents on  
10 there. So all the documents besides what's in my  
11 folder --

12 Q. Which is right here?

13 A. No. No. Folder on the thumb drive. There's a  
14 manila folder icon in my thumb drive.

15 Q. Okay.

16 A. I just copied my directory over to the thumb  
17 drive.

18 Q. Okay.

19 A. And all the files with it, right?

20 Q. Right.

21 A. So anything outside of that is what Chris gave  
22 me yesterday to review before I came here.

23 Q. And did you review it?

24 A. Yes.

25 Q. Okay. Did anything that Chris Neary gave you

1 to review affect your opinions you're expressing here  
2 today?

3 A. Yes.

4 Q. Okay. I'm just trying to figure out how to ask  
5 you about that if I don't have them in front of me  
6 because I don't have just, you know, what you got  
7 yesterday versus what you had in your file already.

8 THE WITNESS: Can we go off the record?

9 MR. BARTOLOTTA: Sure.

10 (Off the record.)

11 THE WITNESS: There was a report that Chris  
12 gave me. I forget who prepared it. It was a consulting  
13 firm that was not SHN.

14 MR. CROWLEY: GHD?

15 THE WITNESS: Oh, GHD. It was a completely  
16 third party that was -- they were describing why it would  
17 be okay, and under a lot of studies, to go from the  
18 1-to-100 dilution ratio to the 10-to-1 for the creek  
19 discharge.

20 BY MR. BARTOLOTTA:

21 Q. Okay.

22 A. And throughout that whole study, they assumed  
23 the wetlands were actually holding water --

24 Q. Okay.

25 A. -- with some retention time, enough to drop the

1 nitrogen levels down.

2 Q. Okay.

3 A. Right. So their ten parts per million could be  
4 met, their criteria could be met. So part of that -- so  
5 I realized yesterday looking at that and said, "Wait,  
6 they accepted this variance based on this plant acting  
7 this way, being operated this way," and I found out it's  
8 not operating this way.

9 Q. Okay.

10 A. Which is why we have five exceedances of  
11 nitrogen in the wet season for nitrogen, double what it  
12 should be.

13 Q. Okay.

14 A. Should be ten. It's reported once at 22 and  
15 four times 24 or something like that. In the twenties.  
16 And we only were able to get it down when the flow  
17 stopped, the storm water stopped.

18 Q. Okay. And so what is your explanation as to  
19 why those nitrogen exceedances occurred?

20 A. I believe they didn't keep the water in the  
21 enhanced wetlands long enough for that to occur.

22 Q. And that's because the volume that occurred  
23 during wet seasons was too high?

24 A. It's not too high. They often just dumped it  
25 directly into the creek.

1 MR. CROWLEY: Just for the record, identify  
2 what exhibit you're looking at, please.

3 THE WITNESS: I'm looking at my sheet, 174.

4 BY MR. BARTOLOTTA:

5 Q. So I guess what I'm asking is, in other words,  
6 the volume of water coming in was too much for the plant  
7 to handle in the proper way and so it was being dumped  
8 into the creek directly?

9 A. No. I'm wrong.

10 Q. Okay.

11 A. Actually, I'm looking at the influent for 2013.

12 Q. Okay.

13 A. In 2013 it's pretty moderate. This is the time  
14 in August when Chris asked me to check the water levels  
15 in the valley through monitoring wells --

16 Q. Right.

17 A. -- to explain if it could be low flow, and  
18 they're all pretty moderate flows.

19 Q. Right.

20 A. So they were out of compliance for nitrogen in  
21 one, two, three -- I think August through December when  
22 flows are pretty moderate. So I can't explain that. I  
23 don't know why they were high.

24 Q. Okay. What are the possible explanations?

25 A. I don't know. I'm not a chemist or I don't

1 know anything about operating a sewage treatment plant.

2 Q. Okay. I appreciate that. I know very little  
3 myself. Mr. Crowley and I.

4 MR. CROWLEY: I know less than you.

5 THE WITNESS: That's really all I learned from  
6 review of the documents that Chris gave me.

7 BY MR. BARTOLOTTA:

8 Q. Okay. The self-monitoring reports that you  
9 received --

10 A. Yes.

11 Q. -- I know I just saw a whole bunch of them,  
12 those were provided by the City of Willits?

13 A. Yes.

14 Q. And was --

15 A. And River Watch for the year 2013 and a couple  
16 months before.

17 Q. Okay. And those were -- I think you said those  
18 were consistent with the data that you were given on the  
19 meters?

20 A. Yes, right.

21 Q. But basically their self-monitoring would be  
22 reading them in meters and writing it down on --

23 A. That's all they're doing, yes.

24 Q. And then that's likely what they used to  
25 compile the month-to-month amounts?

1           A.     That's exactly what they did.  They're their  
2 readings, right.

3           Q.     Okay.

4           A.     You better keep that.

5           Q.     I'm going to read some things --

6           A.     What's that?  I don't know, is that yours?  It  
7 got mixed around here.

8           Q.     I don't think so.  I think that's yours.  I  
9 don't want to take something out of the file.

10                   In terms of your ability to obtain records from  
11 the City of Willits through public records requests, you  
12 did get flow data -- metered flow data for the years you  
13 requested, correct?

14          A.     Yes.

15          Q.     And you had indicated that you understood there  
16 were metering issues; in other words, problems with the  
17 meters themselves for years prior?

18          A.     No.  I think metered -- today, they still  
19 exist.

20                   Oh, in that connection, there was another  
21 report I reviewed that Chris gave me yesterday that  
22 talked about the partial flume that meters the influent  
23 coming in, and there was an engineering firm that tested  
24 it, Brelje & Race.  I read their report on that, and they  
25 reported it could be off like 10 or 20 percent

1 underreporting and often not reporting when the water  
2 level over this smooth weir surface is less than an inch  
3 and a half. So it records zero and there's actually flow  
4 going.

5 Q. So this is influent?

6 A. Influent.

7 Q. Coming in?

8 A. Right, which makes my influent minus effluent  
9 for the whole plant -- no; influent minus effluent from  
10 the treatment system even bigger than recorded on my  
11 spreadsheet.

12 Q. So that report from Brelje & Race that you  
13 reviewed, do you recall what years they were talking  
14 about in terms of the metering being off?

15 A. They said they hadn't changed the flume since  
16 the beginning. It's been there. It empties into 36 or  
17 some big pipe comes into this catchment and they have the  
18 flume right there.

19 Q. Okay. So I'm going to read a paragraph from  
20 the First Amended Brooktrails Township Cross-Complaint.

21 A. Okay.

22 Q. It says:

23 "All times prior to the execution by  
24 Brooktrails of the first USDA loan agreement,"  
25 which I believe was in 2004, "the City of



1 Willits concealed from Brooktrails the  
2 material fact that the City of Willits had  
3 excessive inflow and infiltration to the  
4 City's collection system."

5 Okay. Do you have that in mind?

6 A. Yes.

7 Q. Okay. Do you have any documentation regarding  
8 flow rates that are any earlier than 2010?

9 A. No.

10 Q. Do you have any documents that you've seen that  
11 would indicate the City of Willits was aware of increased  
12 flow rates as a result of infiltration in the collection  
13 system prior to 2010?

14 A. No.

15 Q. Do you have any information or documents that  
16 would indicate that there was concealment by the City of  
17 Willits regarding excessive inflow and infiltration to  
18 the City's collection system?

19 A. Prior to 2010?

20 Q. Yes.

21 A. No.

22 Q. And, in fact, the information that you have  
23 from 2010 to today was provided to you by a public  
24 records request?

25 A. That's correct.

1           Q.     Was there any indication that they were  
2     unwilling to provide that to you?

3           A.     No.

4           Q.     Have you reviewed any documents regarding  
5     representations by the City of Willits that it had an  
6     active and effective program to control and reduce the  
7     inflow and infiltration of water into its collection  
8     system?

9           A.     No.

10           MR. CROWLEY: Lee, what paragraph are you  
11     reading from?

12           MR. BARTOLOTTA: 12.

13           MR. CROWLEY: Thank you.

14     BY MR. BARTOLOTTA:

15           Q.     Were you provided any documents from the  
16     Regional Water Quality Control Board that required the  
17     City of Willits to develop a plan for addressing high  
18     water -- high winter flows into the wastewater plant  
19     which high winter flows were caused by excessive inflow  
20     and infiltration?

21           A.     No.

22           Q.     Have you ever talked to Chris Neary about  
23     documents that the Water Quality Control Board had  
24     produced regarding issues of inflow and infiltration with  
25     the City of Willits' collection system?

1           A.     Not that I can recall.

2           Q.     So in terms of your calculations on 174-A, when  
3 I'm looking at this -- so, for example, if I'm looking at  
4 December 2012 -- okay? -- that's where it was basically  
5 102 million gallons for the month.

6           A.     Right.

7           Q.     And the month before was only 35.

8           A.     Right.

9           Q.     The month after was 43.

10          A.     21.

11          Q.     Excuse me?

12          A.     Oh, the month after, yes, 43. Yes. Okay.

13          Q.     Okay. So in terms of that bump that goes up to  
14 102 million gallons, is it your opinion that that would  
15 be caused exclusively by the water table increasing to a  
16 point that it infiltrates the collection system?

17          A.     Yes, infiltrates the sewer pipes running to the  
18 plant.

19          Q.     Okay. And is that the same opinion with  
20 respect to the December 2010 increase to 103 million  
21 gallons?

22          A.     Yes.

23          Q.     And so let me ask you, I mean --

24          A.     Wait. December 2010?

25          Q.     Yes.

1           A.     Yes.  Yes.

2           Q.     Would you expect that if we were to look at  
3     rainfall totals for these months, that they would  
4     correlate?

5           A.     Yes, the rise in groundwater is correlatable  
6     with rainfall.

7           Q.     So that --

8           A.     Preceding rainfall.

9           Q.     So that should -- if it was -- your scientific  
10    hypothesis would be that those would be periods of  
11    increased rainfall?

12          A.     As a matter of fact, you could probably go to  
13    the City of Willits Corporation Yard records for their  
14    monitoring reports and look at years of actual water  
15    level fluctuations in their monitoring wells.

16          Q.     Okay.  Is that on a monthly basis that they do  
17    that, do you know?

18          A.     It used to be.  Then it went quarterly.  But  
19    they may have been there long enough where it's monthly.

20          Q.     Is there monitoring data that's done on a  
21    monthly basis anywhere in the City of Willits that you  
22    could use to correlate the data you have in  
23    Exhibit 174-A?

24          A.     I don't know.  The City wells may have some  
25    kind of recorder in there.  I don't know.  There may be

1 private monitoring wells that they have a recorder.  
2 Yeah, there may be stream flow gauges that people operate  
3 that record. I don't know.

4 Q. Okay.

5 A. As a matter of fact, I think I was monitoring  
6 monthly water level --

7 Q. You're the person who would know, right?

8 A. -- at Dave Rupe's place on Main Street.

9 Q. Who is he?

10 A. He's owner of the property at Main Street, on  
11 this corner of California and Main. And he abandoned the  
12 wells years ago, but the Water Board would have all those  
13 records. And I think I was in a monthly -- and Persico  
14 Fossil Fuels on Shell Lane, I was doing that too,  
15 monthly. So I have monthly hydrographs in many, many  
16 wells where I measured the water level elevation.

17 Q. With respect to the geographical region that  
18 we're discussing, you know, I've been to Willits a  
19 handful of times in my life. Is there a uniform soil  
20 condition in the Willits city?

21 A. I don't know, but it sure looks like it because  
22 the vegetation looks pretty much the same everywhere.

23 Q. Would you expect that wells in different places  
24 would show -- and I'm not asking you to -- I'm just  
25 asking your professional opinion. Would the wells show a

1 similar depth of groundwater in the region?

2 A. They do and did, because I sampled several  
3 sites in Willits. Oh, and Shuster's Transportation too,  
4 and I have water levels from that and that's just  
5 upstream. That's on Broaddus Creek.

6 Q. Okay. And have you ever done anything in terms  
7 of water monitoring levels at Brooktrails?

8 A. No.

9 Q. In terms of the geographical area that  
10 Brooktrails encompasses, would you expect the same thing  
11 or is it different geographically?

12 A. It's really hilly and really different. It's  
13 mountainous.

14 Q. Okay. So you would expect --

15 A. Yeah, because it's not flat like the valley.

16 Q. Okay.

17 A. Because water will tend to, you know, settle  
18 out essentially in the valley. There's nowhere else to  
19 go.

20 Q. Okay. And so is the City of Willits in a  
21 geographical valley?

22 A. Yes. Little Lake Valley is the basin, and it  
23 floods every year.

24 Q. Okay. In terms of the inflow into the plant,  
25 it's your understanding that the only inflow is from the

1 sewers' collection systems?

2 A. Yes. And I just -- I just want to mention  
3 flooding because there are times of the year when you  
4 can't drive parts of Willits because the water is a foot  
5 deep. It's over the ground surface.

6 Q. Right.

7 A. So the groundwater was above the ground.

8 THE REPORTER: I'm sorry; what?

9 THE WITNESS: The water is over the ground  
10 surface.

11 MR. CROWLEY: The groundwater is above the  
12 ground.

13 THE WITNESS: The groundwater is above the  
14 ground.

15 BY MR. BARTOLOTTA:

16 Q. Okay. But --

17 A. So it could go into manholes, you know.

18 Q. Right. And that's what I'm trying to find out,  
19 if there's any surface runoff other than into the  
20 collection system that would be increasing the input.

21 A. But I've lived there since 1996.

22 Q. I understand.

23 A. Real close to the sewage treatment plant, and  
24 the flooding only happens maybe two or three or four days  
25 in a row and that's all, as far as the water being above

1 ground. It's not like months at a time.

2 Q. Right.

3 A. But that would contribute -- obviously when it  
4 went down, it would contribute to high water levels.

5 Q. Okay. Is there any way that that could be  
6 flowing directly into a collection system that goes into  
7 the plant, other than defects in the collection system?

8 A. Only if you have sewer manholes that leak and  
9 water is seeping into them as it's flooding.

10 Q. Well, if you had a manhole that was under  
11 water, wouldn't that potentially contribute a lot of  
12 water --

13 A. That's like a leak in a pipe though. It's not  
14 an open hole. You've got a manhole there. Maybe you've  
15 got a hole to lift it up with so water leaks into that.

16 Q. Okay. Are there any other opinions that you  
17 intend on expressing at the time of trial?

18 A. The ones I've expressed today and perhaps  
19 others I may come to after more study and people ask me  
20 to look at other things before trial.

21 Oh, and if asked about Tom Herman, I have an  
22 opinion about him.

23 Q. Okay. Do you have an opinion about him now?

24 A. Yes.

25 Q. What's your opinion about him?



1           A.     He's not an engineer and he played like he was  
2 for years.

3           Q.     Okay.

4           A.     He was so-called town engineer -- City  
5 Engineer.

6           Q.     Okay.

7           A.     And he's just a surveyor.

8           Q.     Okay.

9           A.     And I believe he's just a grandfathered  
10 surveyor. He never took the test.

11          Q.     Okay.

12          A.     So he was doing all sorts of cost estimates for  
13 the City on other things that he shouldn't have been  
14 doing. He shouldn't have been calling himself an  
15 engineer because you can't do that by the Business and  
16 Professions Code.

17          Q.     Okay. Anything else?

18          A.     I think he was involved in the design of the  
19 plant.

20          Q.     Okay.

21          A.     And he shouldn't have been.

22          Q.     So in terms of your readiness to prepare for  
23 trial, are you expecting to receive additional  
24 documentation to help your opinions?

25          A.     I don't know.

1           Q.     Have you had a conversation with Mr. Neary  
2 about whether additional documents --

3           A.     No, nothing has been said about what's coming  
4 up and so forth, I don't know, but I may have other  
5 opinions based on what he may discover and he's looking  
6 at.

7           Q.     Okay. Well, if additional information and  
8 documentation are provided to you that has -- that either  
9 support or contradict or provide you with new opinions,  
10 then I'm reserving the right to redepose you with respect  
11 to those new opinions.

12          A.     Understood.

13          Q.     And obviously there may be experts who are your  
14 counterpart on our side and you'd be able to comment upon  
15 what those opinions were, but it sounds like you're not  
16 certain as to whether additional documentation might be  
17 given to you; is that correct?

18          A.     That's correct.

19          Q.     So to the extent that there is additional  
20 documentation -- well, first of all, what you provided to  
21 me on the disk, other than the deposition transcript you  
22 have there, is the stuff in that manila folder on the  
23 disk?

24          A.     Yes.

25          Q.     So I have everything on that -- on my hard

1 drive now --

2 A. Yes, you do.

3 Q. -- that you've reviewed outside of that  
4 deposition?

5 A. Right.

6 Q. Okay. Is there anything in that novel that  
7 served as a basis for your opinion?

8 A. Yeah, there's the receipt.

9 Q. No; I meant in the book itself.

10 A. No. There's nothing -- no notes.

11 Q. You know, *Dianetics* or something.

12 A. No.

13 MR. CROWLEY: The only thing that he may be  
14 asked to do that I'm aware of is possibly prepare some  
15 demonstrative exhibits demonstrating to the jury the  
16 opinions that he's expressed today. So those obviously  
17 have not been prepared yet, but I would anticipate, if I  
18 was trying the case, that's what I would ask him to do in  
19 the future.

20 MR. BARTOLOTTA: I think you are trying the  
21 case. That's why you're in the room, you know.  
22 Understood.

23 All right. We're done.

24 THE WITNESS: Thank you.

25 (Deposition of DONALD G. McEDWARDS, Ph.D.,  
concluded at 2:40 p.m.)

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CERTIFICATE OF WITNESS

State of California    )  
                              ) ss.  
County of                )

I, DONALD G. McEDWARDS, Ph.D., hereby declare  
under penalty of perjury that I have read the foregoing  
testimony recorded on pages 1 to 147, inclusive, and I  
certify that:

\_\_\_\_\_ I have no corrections.

\_\_\_\_\_ I have corrections, as reflected by letter or  
handwritten corrections made to the original  
transcript, and that I now approve my  
deposition as true and correct.

\_\_\_\_\_ Date                               DONALD G. McEDWARDS, Ph.D.

---o0o---

DISPOSITION OF TRANSCRIPT

I certify that the witness was given the  
statutory allowable time within which to read and sign  
the deposition, and that:

\_\_\_\_\_ The witness failed to appear for such reading  
and signing.

\_\_\_\_\_ The witness has waived review/signature on the  
record.

\_\_\_\_\_ The witness has reviewed and signed the  
transcript and has made (no) changes.

\_\_\_\_\_ A letter of correction has been submitted and  
is attached to the transcript.

\_\_\_\_\_ Date                               LUEL J. SIMSON, CSR No. 4720

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REPORTER'S CERTIFICATE

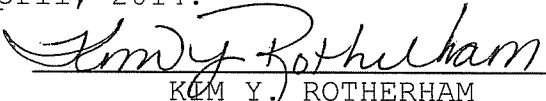
STATE OF CALIFORNIA    )  
                                  )    ss.  
COUNTY OF SONOMA       )

I, KIM Y. ROTHERHAM, C.S.R. #7397, hereby certify that the witness in the foregoing deposition, named to wit: DONALD G. McEDWARDS, Ph.D., was by me duly sworn to tell the truth, the whole truth, and nothing but the truth in the within-entitled cause;

That said deposition was taken in shorthand by me, a certified shorthand reporter, and a disinterested person, at the time and place therein stated; and that the testimony of the said witness was thereafter transcribed under my direction and supervision; that the foregoing transcript constitutes a full, complete, and accurate transcription of my shorthand notes taken of the oral proceedings.

I further certify that I am not of counsel or attorney for either or any of the parties to the said deposition, nor am I in any way interested in the outcome of this cause, and that I am not related to any of the parties thereto.

IN WITNESS WHEREOF, I have hereunto set my hand this 25th day of April, 2014.

  
\_\_\_\_\_  
KIM Y. ROTHERHAM  
CERTIFIED SHORTHAND REPORTER  
State of California

SIMSON REPORTING  
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April 25, 2014

Donald G. McEdwards, Ph.D.  
c/o The McEdwards Group  
1025 Hearst-Willits Road  
Willits, California 95490

Re: BROOKTRAILS TOWNSHIP COMMUNITY SERVICES  
DISTRICT vs. CITY OF WILLITS  
(Deposition taken April 21, 2014)

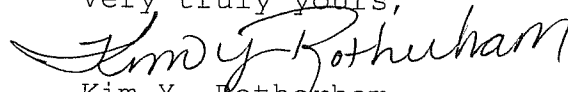
Dear Dr. McEdwards:

The original transcript of your deposition taken in the above-entitled action has been prepared and is available at this office for your review and correcting, if necessary. If you are represented by counsel who has a copy of your deposition, you may review that copy and submit to this office by letter any corrections you wish to make.

Unless otherwise directed, the original transcript will be sealed 35 days from the date this notice is sent. If you do not wish to read your deposition transcript, please sign below and return within 35 days from the date this letter was mailed.

You may call to set up an appointment at this office Monday through Friday between the business hours of 8:00 a.m. and 5:00 p.m.

Very truly yours,

  
Kim Y. Rotherham  
CSR No. 7397

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date